Visit the SmartTots Booth!
You’ll find a plethora of pediatric anesthesia research resources.
Grab our Consensus Statement, FAQ’s and up-to-the minute research articles.
Wine • Raffle • Chocolate

Onsite SmartTots Educational Opportunities

SmartTots Panel
Attend Anesthesia and Neurotoxicity: A Conundrum for Clinicians
to learn the latest research on the effects of anesthesia on the developing brain.

Sunday, May 19th, from 11:00 am – 12:30 pm
Fairmont The Queen Elizabeth | Agora/Centre-Ville Rooms, Lobby Level

SmartTots Related Poster Sessions
Get the latest research at these sessions: smarttots.org/research-and-grants

Stay Informed After the Meeting
Sign up for our newsletter and stay abreast of breaking
news and research updates: tinyurl.com/smarttots

Donate
Support our critical research! Stop by the booth, make a donation,
and enter our drawing to win great prizes, including a bottle
of SmartTots special reserve wine, a
gift certificate and more!

Donate online at SmartTots.org/donate
AUA

Activity Overview
Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The purpose of the Association of University Anesthesiologists (AUA) 2019 Annual Meeting is to provide an evidence-based and clinically-oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience
The AUA 2019 Annual Meeting is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, and anesthesia investigators in academic, clinical, and laboratory settings.

Educational Objectives
As a result of participating in this live CME activity, learners will be able to:

• Describe the latest developments in education research, measuring knowledge in the field of anesthesia.
• Consider recent research findings relative to anesthesiology and evaluate their application to the learner’s professional practice.
• Develop strategies for integrating new knowledge and behaviors into their professional practice.
• Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation Statement
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the International Anesthesia Research Society (IARS) and the Association of University Anesthesiologists (AUA). The IARS is accredited by the ACCME to provide continuing medical education for physicians.

CME Credit
The International Anesthesia Research Society (IARS) designates the AUA 2019 Annual Meeting live activity for a maximum of 11 AMA PRA Category 1 Credits.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Commercial Support
This CME activity is supported entirely by the Association of University Anesthesiologists (AUA). There is no commercial support for this activity.

SOCCA

Activity Overview
The Society of Critical Care Anesthesiologists (SOCCA) 2019 Annual Meeting and Critical Care Update is designed to optimize outcomes for critically ill patients and their families through evidence-based and clinically-oriented physician education. The purpose of the SOCCA Annual Meeting and Critical Care Update is to advance knowledge, improve competence, and enhance performance of intensive care teams.
Target Audience
The SOCCA 2019 Annual Meeting and Critical Care Update is designed for anesthesiologists in the clinical and laboratory setting.

Educational Objectives
As a result of participating in this live CME activity, learners will be able to:
• Evaluate the current state of emerging knowledge and practice patterns and assess the relevance to their professional practice;
• Incorporate new knowledge from advances in anesthesiology practice into their professional practice areas; and
• Distinguish gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation Statement
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the International Anesthesia Research Society (IARS) and the Society of Critical Care Anesthesiologists (SOCCA). The IARS is accredited by the ACCME to provide continuing medical education for physicians.

CME Credit
The International Anesthesia Research Society (IARS) designates the SOCCA 2019 Annual Meeting live activity for a maximum of 4.5 AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Maintenance of Certification in Anesthesiology Program® (MOCA®)
Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis.

Commercial Support
This CME activity is supported entirely by the Society of Critical Care Anesthesiologists (SOCCA). There is no commercial support for this activity.

IARS
Activity Overview
Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The purpose of the International Anesthesia Research Society (IARS) 2019 Annual Meeting and International Science Symposium is to provide an evidence-based and clinically oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience
The IARS 2019 Annual Meeting and International Science Symposium is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, anesthesia investigators, and allied health professionals who conduct research, practice, or intend to practice in any area of general anesthesia, subspecialty anesthesia, or pain management.
**Educational Objectives**
As a result of participating in this live CME activity, learners will be able to:

- Describe the latest developments in critical care, perioperative medicine, pain management, and other anesthesiology subspecialty areas.
- Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.
- Develop and apply strategies for integrating new knowledge and behaviors into their professional practice.

**Accreditation Statement**
The IARS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

**CME Credit**
The IARS designates this live activity for a maximum of 29.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Maintenance of Certification in Anesthesiology Program® (MOCA®)**
Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis.

**Commercial Support**
The IARS 2019 Annual Meeting and International Science Symposium is provided with commercial support from HeartWorks by MedaPhor and Philips Healthcare.

---

**AUA, SOCCA AND IARS**

**Claiming CME Credit**
The IARS will provide online program evaluation and session tracking to support claiming CME credit beginning on Wednesday, May 23. Meeting participants will have 90 days to claim CME credit.

**Disclosure**
The International Anesthesia Research Society (IARS) makes every effort to develop CME activities that are independent, objective, scientifically balanced presentations of information. The IARS has implemented mechanisms requiring everyone in a position to control content to disclose all financial relationships with commercial interests. Disclosure of any or no relationships is made available in advance of all educational activities. The IARS evaluates, and if necessary, resolves any conflicts of interest prior to the start of the activity. Individuals who refuse or fail to provide the required disclosures are disqualified from being a planning committee member, teacher, or author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

**Disclaimer**
The information provided in this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient’s medical condition.
Order Before the Meeting Ends and Save up to $300!

IARS Annual Meeting OnDemand Features Include:

- Sync across all your devices
- Download MP3 files
- Earn credits with online testing
- Search by topic or presenter

Popular Sessions Include:
- Health Research Funding in the 21st Century: Not for the Faint of Heart
- Nudging Physicians to Change Behavior: The Theory, Conduct, and Critical Assessment of Nudge-Type Interventions
- Controversies in Global Health

UPGRADE: Take your learning offline by adding on a portable USB drive for $60.

IARS.OnDemand.org/Montreal

Specific presentations within a session may not be available or may be audio only if the presenter has confidential patient information or otherwise declines to be recorded.
In this Program, you will find the information needed to make the most of your IARS, AUA and SOCCA Annual Meetings experience. Included is a complete listing of times and locations for all sessions and events, as well as maps to help you navigate the hotel. If you have questions that are not addressed in the program, please visit the Registration Desk for help.

Thanks for coming to Montreal – we’re excited to see you!

**Hotel Information**
Fairmont The Queen Elizabeth
900 Rene Levesque Blvd. W
Montreal, Quebec, Canada H3B 4A5

**Registration and Help Desk**
The Registration Desk is located on the Mezzanine Level and Registration hours are:
- Thursday, May 16 ....................................................... 7:00 am – 6:00 pm
- Friday, May 17 .......................................................... 6:00 am – 7:00 pm
- Saturday, May 18 ....................................................... 6:30 am – 7:00 pm
- Sunday, May 19 .......................................................... 6:00 am – 5:30 pm
- Monday, May 20 ....................................................... 6:15 am – 5:30 pm

**Name Badges**
Included in your Registration Packet is your name badge – it is a must have item to be admitted into the education sessions. If you misplace your badge, please visit the Registration Desk for a replacement.

**WiFi Connection**
Connecting to the internet in the meeting and the exhibit area is easy – open your Wifi, choose the Fairmont_Meeting network, and type in 2019 when prompted for a password. The Wifi connection is on us – but please refrain from media streaming or downloads.

**Your Registration Includes**
All IARS, AUA and SOCCA attendees are invited to attend the Aligned Meeting Day sessions on Saturday, May 18, the Alignment Reception and Exhibit Area.

AUAAnnual Meeting registrants have access to all AUA Sessions, Thursday, May 16 through Friday, May 17.

SOCCA Annual Meeting and Critical Care Update registrants have access to all SOCCA Sessions, Friday, May 17.

IARS Annual Meeting and International Science Symposium registrants have access to all IARS Sessions, Friday, May 17 through Monday, May 20. Workshops, Problem-Based Learning Discussions and Innovative Sessions require pre-registration. Visit the Registration Desk for more information.

**Annual Meeting Registration Cancellation Policy**
IARS, AUA and SOCCA registrations canceled on or before May 2, 2019 will be issued a full refund, minus a $50 processing charge. Sorry, no refunds will be issued after this date.
**Annual Meeting App**
Download the IARS, AUA and SOCCA 2019 Annual Meetings App! Explore all session and speaker info and figure out which networking events you’ll be attending. The app also lets you connect with other attendees, just like that. Download the app here, or from Google Play or the App Store by searching for “IARS”.

**Special Services**
If you are in need of any special services, please contact us at meetings@iars.org, visit the Registration Desk or ask any IARS staff member you see – we’re happy to help!

**Speaker Slide Check-in Room**
All presenters must bring their PowerPoint Presentations to the Speaker Slide Check-in Room, located in Rue McGill, Convention Level, at least 3 hours before your session begins. Please allow enough time for checking-in to ensure your session goes smoothly.

All presentations will queued from the Speaker Slide Check-in Room. Please note, all presentations must be created in PowerPoint. Staff will be available in the Speaker Slide Check-in Room to help with any troubleshooting or last-minute changes.

**Hours:**
- Thursday, May 16 ....................................................... 7:00 am – 6:00 pm
- Friday, May 17 ........................................................... 6:00 am – 7:00 pm
- Saturday, May 18 ....................................................... 6:30 am – 7:00 pm
- Sunday, May 19 ........................................................... 6:00 am – 5:30 pm
- Monday, May 20 ........................................................... 6:15 am – 5:30 pm

**Poster Room**
The Poster Room, Poster Check-in and the Poster Pickup Booth can be found in the Place du Canada / Square Dorchester Room, Convention Level.

**Abstract Listing**
Search all abstracts and speakers for the IARS, AUA and SOCCA 2019 Annual Meetings on the event site at [http://tiny.cc/lr3l5y](http://tiny.cc/lr3l5y).

**Electronic Devices**
Shhh — let’s be respectful of our presenters! Please silence your phone during education sessions. Thank you!

**IARS On Demand**
Make the Annual Meeting last all year! Sign up for IARS On Demand and have instant access to over 80 hours of CME-accredited sessions from the 2019 meeting. Rewatch your favorite sessions and access the ones you missed — anytime, anywhere. If you didn’t already choose the Gold Registration on your registration form, we can upgrade you on the spot at the IARS On Demand Booth, located in the Registration Area, Mezzanine Level.
**SmartTots**
Get smarter at the SmartTots booth! You’ll find the latest in pediatric anesthesia research resources and up-to-the-minute SmartTots news. You can also sample some fancy chocolates and donate to SmartTots’ research efforts – and be entered to win a bottle of SmartTots wine. The SmartTots booth is located in the Foyer, Convention Level.

**OpenAnesthesia**
Come check out the best learning app, period. Using patented algorithms based on research done at MIT and machine learning, OpenAnesthesia SelfStudyPLUS is what you’ve been looking for. Every interaction results in the app learning and adjusting to what challenges and pushes you to the next level of your studies or CME Credit. The OpenAnesthesia SelfStudyPLUS app gives you anytime, anywhere access to over 2300 questions, curated by the best teaching physicians from top hospitals nationwide.

OpenAnesthesia is proudly sponsored by IARS. Find out more at www.selfstudy.plus or pick up info at OpenAnesthesia SelfStudyPLUS Information Booth, located in the Foyer, the Convention Level.

**Media Release Policy**
By attending the IARS, AUA and/or SOCCA 2019 Annual Meeting or entering in the facility in which the Annual Meeting takes place, you agree that IARS, AUA, SOCCA and/or third parties authorized by IARS, AUA and/or SOCCA may photograph or record your likeness, image, name, voice, and/or words, and may publish, display, reproduce, copy, and distribute your likeness, image, name, voice, and/or words for promotional, educational, or membership activities worldwide in all forms of media now known or later developed, including but not limited to advertising, training, websites, presentations, and marketing materials. You further acknowledge that IARS, AUA, SOCCA and/or third parties authorized by IARS, AUA and/or SOCCA shall have the right, but not the obligation, to identify you in connection with such media by name and/or affiliation.

**Recording Audio, Video, and Still Photography**
Copyright of the IARS, AUA and SOCCA 2019 Annual Meetings is owned by IARS, AUA and SOCCA, respectively. Each organization reserves the rights to all recordings or reproductions of presentations at this Annual Meeting. Any photography, filming, taping, recording, or reproduction in any medium of any of the programs presented at the IARS, AUA and SOCCA Annual Meetings without the express written consent of the presenting organization is strictly forbidden.
With nearly 8,000 square metres (85,000 square feet) of flexible function space, the newly renovated Fairmont The Queen Elizabeth is certain to have the perfect venue for your next meeting or social event. And with creative food and beverage offerings, state-of-the-art audiovisual equipment and a team of professional event colleagues, your next meeting at Fairmont The Queen Elizabeth is bound to inspire!
With nearly 8,000 square metres (85,000 square feet) of flexible function space, the newly renovated Fairmont The Queen Elizabeth is certain to have the perfect venue for your next meeting or social event. And with creative food and beverage offerings, state-of-the-art audiovisual equipment and a team of professional event colleagues, your next meeting at Fairmont The Queen Elizabeth is bound to inspire!
IARS AND SOCCA EXHIBIT HOURS

Be sure to stop by and visit our Exhibitors! Not only are they supporting the SOCCA and IARS Annual Meeting, but they’re ready to support your anesthesia-related needs.

FRIDAY, MAY 17, SOCCA ANNUAL MEETING

6:15 am – 7:15 am .................................................. Breakfast with Exhibitors
10:15 am – 10:45 am .................................................. Break with Exhibitors
12:15 pm – 1:15 pm ................................................... Lunch on Your Own
3:00 pm – 3:30 pm ................................................... Break with Exhibitors
6:30 pm – 8:00 pm ............................................... Reception with Exhibitors

SATURDAY, MAY 18, ALIGNED MEETING DAY

6:45 am – 7:45 am ............................................. Continental Breakfast with Exhibitors
9:30 am – 10:00 am .................................................. Coffee Break
1:00 pm – 2:30 pm ................................................... Lunch on Your Own
4:00 pm – 4:30 pm .................................................. Coffee Break
6:30 pm – 8:00 pm ............................................... Alignment Reception

SUNDAY, MAY 19, IARS ANNUAL MEETING

6:00 am – 7:00 am ............................................. Continental Breakfast with Exhibitors
9:00 am – 9:30 am .................................................. Coffee Break
12:30 pm – 2:00 pm .................................................. Lunch on Your Own
3:30 pm – 4:00 pm .................................................. Coffee Break
SOCCA EXHIBITORS

Abbott Point of Care
Table 23
7115 Millcreek Drive Mississauga, Ontario
Canada L5N 3R3
800-387-8378
905-858-2450
abottpointofcare.com
Delivering test results in minutes.

The need for fast, accurate and reliable test results is vital in emergency rooms, critical care centres and other situations where treatment decisions need to be made quickly. Abbott’s portable, hand-held blood analyzers provide real-time, lab-quality results at the patient’s side to speed up decision-making and ensure the appropriate care is provided when and where it’s needed.

American Society of Anesthesiologists
American Society of Anesthesiologists
Tables 9 & 10
1061 American Lane Schaumburg, IL 60173
847-825-5586
f: 847-825-1692
info@asahq.org
asahq.org
ASA® is the leading anesthesiology professional society with more than 53,000 members globally. Since its founding in 1905, the Society raises and maintains the standard of the practice of anesthesiology through education, research, advocacy and quality improvement by focusing on patient care and safety. ASA is dedicated to helping physician anesthesiologists and their care teams provide the highest quality of care in a patient-centered, physician-led environment.
Blink Device Company
Table 26
1530 Westlake Ave N
Suite 600, Seattle, WA 98109
206-708-6043
f: 973-215-8175
contact@blinkdc.com
blinkdc.com

Blink Device Company has developed the TwitchView System, used for the quantitative monitoring of neuromuscular blockade by means of electromyography (EMG). The system utilizes an integrated electrode array and advanced algorithms for ease-of-use and reliability.

La Jolla Pharmaceutical Company
Table 5
4550 Towne Centre Ct San Diego, CA 92121
lajollapharmaceutical.com
info@ljpc.com

La Jolla Pharmaceutical Company focuses on innovative therapies intended to improve outcomes in patients with life-threatening diseases. Visit us at the GIAPREZA exhibit at SOCCA 2019 Table #5!

Masimo Canada ULC
Table 13
4878 Rue Levy Street
Suite 200
Saint-Laurent
Québec H4R 2P1
888-336-0043
f: 877-338-9337
cs@masimo.com
masimo.com

Masimo is a global medical technology company that develops and manufactures innovative noninvasive patient monitoring technologies, including medical devices, a wide array of sensors, and connectivity solutions.

Retia
Table 1
7 Dana Road, Suite 111
Valhalla, NY 10595
914-594-1986
info@retiamedical.com
Retiamedical.com

Retia medical aims to advance the use of cardiac output (CO) monitoring to improve patient care by providing members of the critical care team with a more accurate, easy-to-use, and affordable hemodynamic monitor that supports confident, data-based decisions. Retia brings together industry-leading expertise in physiology, signal processing and computational algorithms to engineer innovative monitoring solutions that give clinicians up-to-the minute data that they can rely on to make informed patient care decisions. Additionally, Retia is committed to giving more clinicians access to CO monitoring by reducing the cost and inconvenience that limit the use of traditional CO technologies to the most high-risk patients.

TruCorp Ltd.
Visit SOCCA.org for information

Wolters Kluwer Health
Tables 7 & 8
2001 Market Street Philadelphia, PA 19103
215-521-8300
customerservice@lww.com
lww.com

Wolters Kluwer Health is a leading global provider of information and point-of-care solutions for the healthcare industry. Our leading product brands include Audio-Digest, Lippincott, Ovid®, UpToDate®, and others.
ASA® is the leading anesthesiology professional society with more than 53,000 members globally. Since its founding in 1905, the Society raises and maintains the standard of the practice of anesthesiology through education, research, advocacy and quality improvement by focusing on patient care and safety. ASA is dedicated to helping physician anesthesiologists and their care teams provide the highest quality of care in a patient-centered, physician-led environment.

Blink Device Company
Table 26
1530 Westlake Ave N
Suite 600, Seattle, WA 98109
206-708-6043
f: 973-215-8175
contact@blinkdc.com
blinkdc.com

Blink Device Company has developed the TwitchView System, used for the quantitative monitoring of neuromuscular blockade by means of electromyography (EMG). The system utilizes an integrated electrode array and advanced algorithms for ease-of-use and reliability.
Henry Ford Health System
Table 2
2799 West Grand Blvd Detroit, MI 48202
aullman1@hfhs.org
henryford.com/careers

Henry Ford Health System is looking to hire Cardiac, Regional and OB Anesthesiologists for hospitals in Jackson and Detroit, Michigan. Leadership and teaching opportunities available.

Masimo Canada ULC
Table 13
4878 Rue Levy Street
Suite 200
Saint-Laurent
Québec H4R 2P1
Phone: 888-336-0043
Fax: 877-338-9337
Email: cs@masimo.com
Website: masimo.com

Masimo is a global medical technology company that develops and manufactures innovative noninvasive patient monitoring technologies, including medical devices, a wide array of sensors, and connectivity solutions.

Retia
Table 1
7 Dana Road, Suite 111
Valhalla, NY 10595
914-594-1986
info@retiamedical.com
Retiamedical.com

Retia medical aims to advance the use of cardiac output (CO) monitoring to improve patient care by providing members of the critical care team with a more accurate, easy-to-use, and affordable hemodynamic monitor that supports confident, data-based decisions. Retia brings together industry-leading expertise in physiology, signal processing and computational algorithms to engineer innovative monitoring solutions that give clinicians up-to-the-minute data that they can rely on to make informed patient care decisions. Additionally, Retia is committed to giving more clinicians access to CO monitoring by reducing the cost and inconvenience that limit the use of traditional CO technologies to the most high-risk patients.

ToFscan by IDMED
Table 14
45 Rue Joliot Curie
Hotel Technologique Marseille, 13013 France
+33 491 118 784
contact@tofscan.com
tofscan.com

ToFscan by IDMED is an accurate quantitative TOF (train of four) monitor. It delivers reliable measurements for TOF ratio, TOF count, PTC. Its silicon splint integrates a 3D sensor, measurements are optimized which makes the device free of calibration. Intuitive and
easy to navigate with one wheel button. ToFscan is user-friendly, and provides reliable measurements for neuromuscular transmission, crucial to improve patient safety before, during and after surgery. More than 8000 sold worldwide.

Wolters Kluwer
Wolters Kluwer Heath
Tables 7 & 8
2001 Market Street Philadelphia, PA 19103
215-521-8300
lww.com

Wolters Kluwer Health is a leading global provider of information and point-of-care solutions for the healthcare industry. Our leading product brands include Audio-Digest, Lippincott, Ovid®, UpToDate®, and others.
AUA SCHEDULE

Association of University Anesthesiologists
THURSDAY, MAY 16: AUA

8:00 am – 8:05 am
Av. Viger
AUA Welcome from President and Host Institution Chairs
Michael Avidan, MBCh, Washington University School of Medicine, AUA President
Pierre Beaulieu, MD, PhD, FRCA, University of Montreal, Host Chair
Thomas Schricker, MD, PhD, McGill University, Host Chair

8:05 am – 09:30 am
Av. Viger
Host Program Panel I
Moderated by Pierre Beaulieu, MD, PhD, FRCA, University of Montreal

Introduction
Pierre Beaulieu, MD, PhD, FRCA, University of Montreal

The Analgesic Power of Music
Isabelle Peretz, PhD, University of Montreal

TBA
Philippe A. Jouvet, MD, PhD, MBA, University of Montreal

8:00 am – 4:30 pm
Place du Canada / Square Dorchester
AUA Poster Session A: Open Viewing
For session details, see the AUA Posters tab.

9:40 am – 10:00 am
Break

10:00 am – 11:00 am
Av. Viger
Host Program Panel II
Moderated by Thomas Schricker, MD, PhD, McGill University

History of Anesthesia in Montreal
Daniel Chartrand, MD, PhD, FRCP, Montreal Neurological Hospital

Genetics of Pain
Luda Diatchenko, MD, PhD, McGill University

11:15 am – 12:15 pm
Av. Viger
AUA Scientific Advisory Board Oral Session I
Moderated by Ines Koerner, MD, PhD, Oregon Health & Science University and Richard Levy, MD, FAAP, Columbia University

Introduction
Ines Koerner, MD, PhD, Oregon Health & Science University and Richard Levy, MD, FAAP, Columbia University

Hyperoxic Resuscitation Following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation
Gary Fiskum, PhD, University of Maryland School of Medicine

Posterior Cerebellar Strokes in Mice Cause Memory and Hippocampal Synaptic Plasticity Impairments
Nidia Quillinan, PhD, University of Colorado

12:15 pm – 1:15 pm
Av. Laurier
AUA All-Attendee Lunch

Pain in Mice and Man: Ironic Adventures in Translation
Jeffrey S. Mogil, PhD, McGill University

RESIDENT TRAVEL AWARD PRESENTATION
Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer’s Disease Pathology
Jacob Basak, MD, PhD, Washington University School of Medicine

RESIDENT TRAVEL AWARD PRESENTATION
Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-specific Patterns of Intraoperative Hypotension Exposure
Michael P. Schnetz, MD, PhD, University of Pittsburgh
THURSDAY, MAY 16: AUA

12:15 pm – 1:15 pm  
Av. Van-Horne

AUA President’s Lunch (invitation only)

1:15 pm – 1:30 pm  

Break

1:30 pm – 3:00 pm  
Av. Viger

AUA President’s Panel
The Reproducibility Crisis in the Era of Precision Medicine
Moderated by Michael Avidan, MBBCh, Washington University School of Medicine, AUA Council President

How We Scientists Can Stop Fooling Ourselves
Regina Nuzzo, PhD, Gallaudet University

Precision Medicine: The RCT is so Passé
Philip Payne, PhD, Washington University School of Medicine

Conflict between Evidence and Practice: Why It Exists
David Mazer, MD, University of Toronto

3:00 pm – 3:30 pm  

Break

3:30 pm – 4:30 pm  
Av. Viger

AUA SAB Oral Session II
Moderated by Meghan Lane-Fall, MD, MSHP, Perelman School of Medicine, University of Pennsylvania; Leonard Davis Institute for Health Economics, University of Pennsylvania and Christine Sang, MD, MPH, Harvard Medical School

Introduction
Meghan Lane-Fall, MD, MSHP, Perelman School of Medicine, University of Pennsylvania; Leonard Davis Institute for Health Economics, University of Pennsylvania and Christine Sang, MD, MPH, Harvard Medical School

Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight
Stephen Ellison, MD, PhD, Duke University Medical Center

JUNIOR FACULTY RESEARCH AWARD PRESENTATION

Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study
Seshadri Mudumbai, MD, Stanford University

JUNIOR FACULTY RESEARCH AWARD PRESENTATION IN PERIOPERATIVE MEDICINE

Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis
Dustin R. Long, MD, University of Washington

MARGARET WOOD RESIDENT RESEARCH AWARD PRESENTATION

Sustaining the Gains — A 6-year Follow-through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes
Ming Ann Sim, MBBS, National University Hospital Singapore

4:30 pm – 4:45 pm  

Break

4:45 pm – 6:15 pm  
Place du Canada / Square Dorchester

AUA Poster Session A: Moderated Discussion Sessions
For session details, see the AUA Posters tab.
7:00 pm – 10:00 pm
Pointe-à-Callière Montréal Archaeology and History Complex

AUA Social Event
Hosted by University of Montreal and McGill University

Designated a national archaeological and historic site, Pointe-à-Callière presents centuries of history from the settlements of our Indigenous People to the present day. Located on a spot occupied by humans for more than a thousand years and on the very site where Montréal was founded, the Museum is home to some remarkable architectural ruins that are showcased on site.

Buses will depart from Mansfield Street, Lobby Level beginning at 6:30 pm.
Ticketed event, visit registration for details.

FRIDAY, MAY 17
8:00 am – 9:30 am
Av. Viger

AUA Educational Advisory Board Panel I
Self-Regulation and Its Role in Education and Performance
Moderated by Keith Baker, MD, PhD, Massachusetts General Hospital

Self-Regulation: What Is It, and How Does It Help Education and Performance?
Daniel Saddawi-Konefka, MD, MBA, Massachusetts General Hospital

The Interaction between Psychological Safety and Self-Regulation
Sara Goldhaber-Fiebert, MD, Stanford University School of Medicine

Managing and Reducing Cognitive Load for Better Education and Performance
Keith E. Littlewood, MD, University of Virginia School of Medicine

8:00 am – 3:30 pm
Place du Canada / Square Dorchester

AUA Poster Session B: Open Viewing
For session details, see the AUA Posters tab.

9:30 am – 10:00 am
Break

10:00 am – 11:00 am
Av. Viger

AUA SAB Oral Session III
Moderated by Lucy Chen, MD, Harvard Medical School and Jae-woo Lee, MD, University of California San Francisco

Introduction
Lucy Chen, MD, Harvard Medical School and Jae-woo Lee, MD, University of California San Francisco

Therapeutic Effects of Hyaluronic Acid in E.coli Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs
Jae-woo Lee, MD, University of California San Francisco

Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis is Influenced by Disease Severity and Tidal Volume
Khoa Nguyen, BS, University of Central Florida

A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia
Dusan Hanidziar, MD, PhD, Massachusetts General Hospital

JUNIOR FACULTY RESEARCH AWARD PRESENTATION

Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-based Nano-emulsion: Safety, Efficacy and Toxicity in Dogs
Behrouz Ashrafi, MD, University of Miami

11:00 am – 11:30 am
Break

AUA 2019 ANNUAL MEETING
11:30 am – 12:30 pm  
AUA SAB Oral Session IV  
Moderated by Niccolo Terrando, PhD, Duke University Medical Center and Paul Garcia, MD, PhD, Columbia University Medical Center

**Introduction**
Niccolo Terrando, PhD, Duke University Medical Center and Paul Garcia, MD, PhD, Columbia University Medical Center

The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults  
Thomas Bunning, BS, Duke University Medical Center

Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through an α2A Adrenoceptor Mechanism in Mice  
Mervyn Maze, MB, ChB, University of California San Francisco

GFAP Expression in the Visual Cortex is Increased in Juvenile Non-Human Primates that were Exposed to Anesthesia during Infancy  
Viola Neudecker, MD, Columbia University Medical Center

---

3:00 pm – 3:30 pm

The Neuroscience of Negative Feedback and Why We Can Become Deaf to It  
Aranya Bagchi, MD, Harvard Medical School

So, Your Paper Was Rejected: A Practical Example of Managing Negative Feedback  
Douglas E. Raines, MD, Massachusetts General Hospital

---

3:30 pm – 5:00 pm

AUA Poster Session B: Moderated Discussion Sessions

For session details, see the AUA Posters tab.

5:30 pm – 6:30 pm

Scholars’ Program Mentoring and Networking Reception

Meet and network with the leaders of the anesthesiology field – and Scholars’ Program participants will be paired with mentors.

This reception is part of the Scholars’ Program, and a ticketed event, visit registration for details.

7:00 pm – 8:30 pm

Taste of Montreal Dine-Around

If you haven’t already, be sure to pre-register for this intimate dining experience at registration. Space is limited; dinner costs are the responsibility of each attendee.

---

Be sure to stay for Aligned Meeting Day tomorrow, May 18, at the Fairmont The Queen Elizabeth hotel — every IARS, AUA and SOCCA attendee is welcome at every session!

See the IARS Sessions tab for Saturday’s details.
All poster sessions, the Poster Information desk, and the Call4Posters™ desk are located in the Place du Canada and Square Dorchester Rooms.

Poster sessions are grouped based on subspecialty topic and will include an open poster viewing time and a moderated poster discussion session.

**AUA POSTER SESSION A: THURSDAY, MAY 16**

- 7:30 am – 8:00 am  Setup
- 8:00 am – 4:45 pm  Open Viewing
- 4:45 pm – 6:15 pm  Moderated Discussion Session
- 6:30 pm – 7:00 pm  Breakdown

**AUA POSTER SESSION B: FRIDAY, MAY 17**

- 7:30 am – 8:00 am  Setup
- 8:00 am – 3:30 pm  Open Viewing
- 3:30 pm – 5:00 pm  Moderated Discussion Session
- 5:00 pm – 5:30 pm  Breakdown

**Viewing e-Posters**
e-Posters are available for viewing throughout the Annual Meetings at http://tiny.cc/lr3l5y.

**Call4Posters™ Pick-up**
Orders placed through Call4Posters™ will be available for pick-up at the Call4Posters™ Desk.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, May 16</td>
<td>7:00 am – 1:30 pm</td>
</tr>
<tr>
<td>Friday, May 17</td>
<td>7:00 am – 1:30 pm</td>
</tr>
<tr>
<td>Category</td>
<td>Pages</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Airway Management</td>
<td>A1-2</td>
</tr>
<tr>
<td>Ambulatory Anesthesia</td>
<td>A3-9</td>
</tr>
<tr>
<td>Anesthetic Pharmacology</td>
<td>A10-16, B150-154</td>
</tr>
<tr>
<td>Blood Management</td>
<td>A17-20</td>
</tr>
<tr>
<td>Cardiovascular Anesthesiology</td>
<td>A21-27, B155-160</td>
</tr>
<tr>
<td>Critical Care</td>
<td>A28-40, B161-165</td>
</tr>
<tr>
<td>Economics, Education and Policy</td>
<td>A41-43, A47-55, B166-171</td>
</tr>
<tr>
<td>Geriatric Anesthesia</td>
<td>A56-58</td>
</tr>
<tr>
<td>Global Health</td>
<td>A44-45</td>
</tr>
<tr>
<td>Neuroscience in Anesthesiology and Perioperative Medicine</td>
<td>A59-71, B172-177</td>
</tr>
<tr>
<td>Obesity</td>
<td>A72-73</td>
</tr>
<tr>
<td>Obstetric Anesthesiology</td>
<td>A74-77</td>
</tr>
<tr>
<td>Pain Mechanisms</td>
<td>A78-80</td>
</tr>
<tr>
<td>Pain Medicine</td>
<td>A81-82, B178-182</td>
</tr>
<tr>
<td>Patient Safety</td>
<td>A83-87, B183-187</td>
</tr>
<tr>
<td>Pediatric Anesthesiology</td>
<td>A89-97, B189-193</td>
</tr>
<tr>
<td>Perioperative Anesthesia</td>
<td>A98-107, B188, B194-198</td>
</tr>
<tr>
<td>Regional Anesthesia</td>
<td>A108-110</td>
</tr>
<tr>
<td>Respiration</td>
<td>A111-114</td>
</tr>
<tr>
<td>Sleep Medicine</td>
<td>B199</td>
</tr>
<tr>
<td>Technology, Computing and Simulation, Equipment Monitoring</td>
<td>A115-119, B200-203</td>
</tr>
<tr>
<td>Trauma</td>
<td>A120-121</td>
</tr>
</tbody>
</table>
| A1. | Chronic Inhibition of Acetylcholinesterase (AChE) Attenuates in Vivo Airway Hyperreactivity and Lung Inflammation in a Model of Murine Asthma  
Maya Mikami, Gene T. Yocum, Shani Kahan, Aisha Kuforiji, Charles W. Emala |
| A2. | A Pilot Study to Determine the Accuracy of Ultrasound in Measurement of the Dimensions of the Pediatric Cricothyroid Membrane  
Bill A. Walsh, Paul Fennessy, Roisin Ni Mhuircheartaigh, Aisling Snow, Kevin McCarthy, Conan McCaul |
| A3. | Does the Use of Intravenous Patient Controlled Analgesia (IPCA) Increase Opioid Consumption and Side Effects in Fast Track Orthopedic Procedures?  
Sameh M Abdelghany, Zeev Friedman, David Backstein, Jaclyn Ricci, Xiang Y. Ye, Naveed Siddiqui |
Satish Dhashmana |
| A5. | High Rates of Postoperative Opioid Overprescription Following Ambulatory Breast Surgery  
Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell |
| A6. | High Rates of Postoperative Opioid Overprescription Following Minimally Invasive Ambulatory Surgery  
Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell |
| A7. | Much Too High: Evaluating the Effect of Cannabis Use on Propofol Anesthesia during Endoscopy  
Ngozi Imasogie, Aze Wilson |
| A8. | Dexmedetomidine vs Midazolam for Medical Thoracoscopy-Randomized, Noninferiority Trial  
Vinod Kumar, Prashant Sirohiya, Nishkarsh Gupta, Rakesh Garg, Sachidanand Jee Bharti, Karan Madan, Seema Misra, Sushma Bhatnagar, Vijay Hadda, Anant Mohan |
| A9. | The Effect of Systemic Lidocaine on Post-Operative Opioid Consumption in Ambulatory Surgical Patients: A Meta-Analysis of Randomized Controlled Trials  
Danielle Lovett-Carter, Mark C. Kendall, Gildasio S. Deoliveira |
| A10. | Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-Based Nano-Emulsion: Safety, Efficacy and Toxicity in Dogs  
Behrouz Ashrafi, Ernesto A. Pretto, Christopher A. Fraker  
Junior Faculty Research Award |
| A11. | Rapid Binding of Lidocaine Within the Channel Pore Involves the Charge of the Selectivity Filter in Rat NaV1.4 Expressed in Xenopus Oocytes  
Kevin Gingrich, Larry Wagner |
| A12. | Effects of Propofol and Its Components on Neutrophils Migration and Macrophages Obtained from Lung and Adipose Tissue of Obese Rats: An in Vitro Study  
Luciana B. Heil, Fernanda F. Cruz, Mariana Antunes, Cassia Lisboa, Lais Agra, Rebecca Bose, Soraia Abreu, Paolo Pelosi, Pedro L. Silva, Patricia R. Rocco |
A13. Mixtures of General Anesthetics Act Synergistically Only If They Act on Different Binding Sites on Synaptic GABA<sub>A</sub> Receptors: A Study in Tadpoles
 Daniel Kent, Keith W. Miller

A14. At Supra-Clinical Doses ABP-700 Produces Involuntary Muscle Movements Distinct from Seizure Activity in Beagle Dogs
 John Marota, Dario Lehoux, Brad Zerler, Mylene Pouliot, Simon Authier

A15. Studies of the New Neuromuscular Blocking Agent CW 1759-50 in the Cat, As in Monkeys, Predict Short- to Ultra-Short Duration in Humans, Reflecting Rapid Degradation by L-Cysteine Adduction in Vitro
 John J. Savarese, Hiroshi Sunaga, Jeff Mcgilvra, Paul M. Heerdt, Anita M. Jegarl, Farrell Cooke, Stewart Mccallum, Randy Mack

A16. Prevalence of Bradycardia Associated with Sugammadex Administration in a Single-Center Retrospective Analysis of Electronic Medical Record Data
 Matthew Weis, Courtney Elder, Arjun Meka, Lauren Meyer, Craig S. Jabaley, Milad Sharifpour, Vikas N. O’Reilly-Shah

A17. Platelet Functionality Is Decreased after Infusion through a Rapid Infusion System
 Shahrukh Bengali, Ilan Keidan, Nikolaus Gravenstein, Jeffrey D. White, Joshua Sappenfield

A18. Variation in Transfusion Guideline Compliance Among Provider Types and Between Medical and Surgical Services
 Tymoteusz Kajstura, Charlie Slowey, Mereze Visagie, Connie W. Chaudhary, Kyun Hee K. Lee, Tyler Wintermeyer, Renee Demski, Steven M. Frank

A19. Efficacy and Safety of ε-Aminocaproic Acid in Open and Minimally Invasive Cardiac Surgery
 Marta Kelava, Anand Mehta, Shiva Sale, Lucy Thuita, Douglas Johnston, Marc Gillinov, Eugene H. Blackstone

A20. An Effective and Efficient Testing Protocol for Diagnosing and Managing Iron Deficiency Anemia Preoperatively
 Obianuju Okocha, Hardik Dand, Michael J. Avram, Bobbie Jean Sweitzer

A21. Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis Is Influenced by Disease Severity and Tidal Volume
 Khoa Nguyen, Chris Ortiz, Trixie Le, Mansoureh Eghbali, Nir Hofman, Soban Umar

A22. Factor VIII Inhibitor Bypass Activity (FEIBA) for the Reduction of Transfusion in Cardiac Surgery: A Randomized Double Blind Placebo Controlled Pilot Trial
 Ann Bingham, Valerie Sera, Howard Song, Victor Rodriguez, Jaishankar Raman, Frederick Tibayan, Miriam Treggiari

A23. Reducing Postoperative Opioid Utilization in Cardiac Surgical Patients with a Multimodal Analgesic Regimen
 Albert T. Cheung, Cody A. Parsons, Andrew Ku, Roya Saffary, Lindsay Raleigh

A24. The Penn Classification Predicts Hospital Mortality in Acute Stanford Type A and Type B Aortic Dissection
 Albert T. Cheung, Michael Tien, Andrew Ku, Jessica Zvara, Natalia Martinez-Acero
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>A25. Metabolomic Profiling Reveals Sex Differences and a Reduction in Metabolism after Remote Ischemic Preconditioning</td>
<td>Elijah Christensen, Anushri Desai, Trevor Banack, Joel Zylberberg, Nathan Clendenen</td>
</tr>
<tr>
<td>A26. Myocardial Post-Conditioning with CPG-Containing TLR9 Ligand 1668-Thioate Modulates Inflammatory Response and Remodeling Resulting in Less Fibrosis and Better Left Ventricular Function in Mice</td>
<td>Daniel Dürr, Shuijing Wu, Max Schneider, Vanessa Marggraf, Luise Verfuerth, Stilla Frede, Christina Weisheit, Olaf Boehm, Oliver Dewald, Georg Baumgarten, Pascal Knüfermann, Se-Chan Kim</td>
</tr>
<tr>
<td>A27. Metabolomic Profiling of the Effects of Cardiopulmonary Bypass on Red Blood Cells: A Prospective Observational Cohort from the University of Colorado Department of Anesthesia Biorepository</td>
<td>Rachel Henderson, Barbara Wilkey, Nathana Weitzel, Nathan Clendenen</td>
</tr>
<tr>
<td>A29. Therapeutic Effects of Hyaluronic Acid in E. coli Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs</td>
<td>Jae-Woo Lee, Airan Liu, Jeonghyun Park, Xiwen Zhang, Shinji Sugita, Jaehoon Lee, Hideya Kato, Qi Hao, Michael Matthay</td>
</tr>
<tr>
<td>A30. Glycemic Stress Index: It Is Useful in Every Clinical Scenario?</td>
<td>Swapnil Aswar, Mathieu Georges, Gianluca Bertolizio</td>
</tr>
<tr>
<td>A31. Adverse Outcomes Associated with Absent or Delayed β-Blocker Administration after Cardiac Surgery</td>
<td>Emily Chanan, Germaine Cuff, Samir Kendale, Aubrey Galloway, Mark Nunnally</td>
</tr>
<tr>
<td>A32. Successful Extracorporeal Membrane Oxygenation Utilization for Refractory Acute Respiratory Distress Syndrome Following Orthotopic Liver Transplantation Re-Exploration for Intra-Abdominal Hemorrhage</td>
<td>Anna Ciullo, Suzanne Bennett</td>
</tr>
<tr>
<td>A33. Perioperative Transfusion Requirements in Veno-Venous Extracorporeal Membrane Oxygenation (ECMO) Patients Undergoing Non-Cardiac Surgical Procedures</td>
<td>Michael A. Fierro, Brandi Bottiger, David Ranney, Mani Daneshmand, Desiree Bonadonna, John Haney, Jacob Klapper, Matthew Hartwig, Michael Manning, Raquel R. Bartz</td>
</tr>
<tr>
<td>A34. Spatial and Temporal Identification of the IL-1β Producing Cell Type in the Lung through Primary Cell Expression Profiling in Intact Human and Mouse Lung Tissue</td>
<td>Arun Prakash, Xiaoli Tian</td>
</tr>
<tr>
<td>A35. Rescue TEE for Differentiating and Managing Shock in Critically Ill Patient</td>
<td>Estuardo J. Saravia Fernandez, Vaibhav Bora</td>
</tr>
</tbody>
</table>
A36. The Attributable Mortality from Bleeding Complications Exceeds the Attributable Mortality from Thrombotic Complications
Robert E. Freundlich, Melissa L. Bellomy, Milo Engoren, Frederick W. Lombard, Barbara J. Martin, Yaping Shi, Matthew Shotwell

A37. Trends in Tracheostomy Utilization after Severe Acute Brain Injury in the United States
Vijay Krishnamoorthy, Monica S. Vavilala, Abhijit V. Lele, Karthik Raghunathan, Claire Creutzfeldt

A38. Inflammatory Profile of Murine Septic AKI: Role of CD11c+/CX3CR1+ Antigen Presenting Cells
Jamie Privratsky, Jiafa Ren, Benjamin Morris, Steven D. Crowley

Bijan Teja, Nicholas A. Bosch, Allan J. Walkey, Ruxandra Pinto, Hannah M. Wunsch

A40. Role of Innate Immune miRNA—TLR7 Signaling in Sepsis-Induced Coagulopathy in Mice
Brittney Williams, Jessica Neder, Lin Zou, Wei Chao

A41. Economic Evaluations of Sugammadex for Reversal of Neuromuscular Block in Surgical Procedures: A Systematic Review
Amit D. Raval, Ishita Doshi, Sumesh Kachroo, Lori D. Bash

A42. Impact of Anesthesia Type on Patient Satisfaction with Anesthesia Care
Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick

A43. Resident Physician Perspective on Women As Leaders
Karlyndsay Sitterley, Philip Boysen, Joseph Koveleskie

A44. Preeclampsia Management in Central America: Moving Towards Multidimensional Care?

A45. A Prospective Observational Study of Postoperative Complications at a Non-Profit, Internationally Supported Surgery Center in Guatemala
Katheryne Lawson, Laura Zeigler, Christy Crockett, J. Matthew Kynes, Ligia Figueroa, Caleb Hayes, Christelle Samen, Kelly McQueen

A46. The Impact of Early Exposure to High-Fidelity Simulation on the Developing Anesthesiologist: A Qualitative Pilot Study
Dylan Bard, Gavyn Ooi, Michael Esterlis, Elaine Kilmartin, Neeru Rattan

A47. Heterogeneity Among Hospitals in the Percentages of All Lumbosacral Epidural Steroid Injections Where the Patient Had Received 4 or More in the Previous Year
Franklin Dexter, Amy C. Pearson, Richard H. Epstein

A48. Point-of-Care Ultrasound Education in Anesthesiology: How Can We Use the PGY1 Year?
Jon Holzberger, Annette Rebel, Amy Di Lorenzo, Randall M. Schell, Jeremy S. Dority
### A49. The Ontology of Leadership: A Simulation-Based Introduction  
Annandita Kumar, Philip Boysen

### A50. Resource Utilization in Implementation of a PoCUS Curriculum for Resident Training in Anesthesiology  
Viji Kurup, Garrett Sendlewski, Christine Baer, Ranjit Deshpande

### A51. Faculty Gender Specific Academic Advancement in U.S. Anesthesiology Teaching Programs and Examination of Contributing Factors Based on Publicly Available Data  
Brenda M. Lee, Farhad Zahedi, Ina Zaimi, David Moss, Roman Schumann

### A52. Root-Cause Analysis for First Case Start Cancellations: Is It the Preoperative Clinic’s Fault?  
Thomas Mclarney, Annette Rebel, Lindsay Van Drunen, Dung D. Nguyen

### A53. Women Program Directors in Anesthesiology: Closing the Gender Gap  
Andrea N. Miltiades, Alexander Rusanov, Teresa Mulaikal, Maya Hastie

### A54. The New Applied Exam Format: Does the Exam Sequence Matter?  
Bjorn Olsen, Annette Rebel, Dung D. Nguyen, Amy Dilorenzo, Jeremy S. Dority

### A55. Reducing Operating Room Delays: One Institution’s Search for the Holy Grail  
Scott M. Pappada, Christopher H. Nam, Soroush Merchant, Sonya Rygielski, Andrew Casabianca, Sadik Khuder, Thomas J. Papadimos

### A56. Impact of a Delirium Reduction PACU Orderset on Administration of Beers Criteria Medications to Older Adults  
Anne L. Donovan, Elizabeth L. Whitlock, Matthias R. Braehler

### A57. Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: Mortality and Functional Outcomes of the Stride Randomized Clinical Trial  
Frederick Sieber, Karin Neufeld, Allan Gottschalk, George Bigelow, Esther Oh, Jean Pierre Ouanes, Naeyuh Wang

### A58. Beers Criteria in the Perioperative Period: Incidence of Perioperative Diphenhydramine, Midazolam and Scopolamine Use in Elderly Surgical Patients  
Audrey E. Spelde, Gurmukh Sahota, Lee A. Fleisher, Sushila Murthy

### A59. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults  
Thomas Bunning, Heather E. Whitson, Kent Weinhold, Marty G. Woldorff, Eugene Moretti, Deborah Oyeyemi, Mary Cooter, Cliburn Chan, Roberto Cabeza, Jeffrey N. Browndyke, David Murdoch, Michael Devinney, Leslie Shaw, Harvey J. Cohen, Joseph P. Mathew, Miles Berger

### A60. GFAP Expression in the Visual Cortex Is Increased in Juvenile Non-Human Primates That Were Exposed to Anesthesia during Infancy  
Viola Neudecker, Jose F. Perez-Zoghbi, Marjorie Grafe, Ansgar Brambrink
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>A61</td>
<td>Influence of Perioperative Antibiotic Use on Postoperative Cognition</td>
<td>Sarah Cotter, Paul E. Wischmeyer, John Hunting, Rebecca Y. Klinger, Joseph P. Mathew</td>
</tr>
<tr>
<td>A62</td>
<td>Metabolipidomic Analysis of Cerebrospinal Fluid Reveals Increased Arachidonic Acid-Derived Lipids and Specialized Pro-Resolving Mediators 24 Hrs and 6-Weeks Following Surgery and Anesthesia</td>
<td>Michael Devinney, Krishna Rao Maddipati, Cliburn Chan, Joseph P. Mathew, Mary Cooter, Niccolo Terrando, Miles Berger</td>
</tr>
<tr>
<td>A63</td>
<td>Intraoperative Electroencephalogram Suppression Mediates the Relationship Between a Preoperative “Vulnerable Brain” Phenotype and Postoperative Delirium</td>
<td>Bradley A. Fritz, Christopher R. King, Nan Lin, Arbi Ben Abdallah, Michael Avidan</td>
</tr>
<tr>
<td>A64</td>
<td>Mechanism of Synaptic Plasticity Impairments and Cognitive Dysfunction Following Global Cerebral Ischemia</td>
<td>Paco Herson, Nidia Quillinan, Robert Dietz, James Orfila</td>
</tr>
<tr>
<td>A65</td>
<td>Intravenous D-Amphetamine Reverses Dexmedetomidine-Induced Unconsciousness in Rats</td>
<td>Risako Kato, Olivia Mallari, Edlyn R. Zhang, Eric Melonakos, Morgan Siegmann, Christa J. Van Dort, Oluwaseun Johnson-Akeju, Ken Solt</td>
</tr>
<tr>
<td>A66</td>
<td>Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through An α2A Adrenoceptor Mechanism in Mice</td>
<td>Mervyn Maze, Rong N. Li, Kit I Lai</td>
</tr>
<tr>
<td>A67</td>
<td>Phenoxyalkoxypsoralen-1 (PAP-1), a Highly-Selective Kv1.3 Channel Blocker, Prevents Neuroinflammation and Postoperative Cognitive Decline in Vulnerable Mice</td>
<td>Mervyn Maze, Kit I. Lai, Rong N. Li, Sarah Saxena, Yosuke Uchida, Heike N. Wulff</td>
</tr>
<tr>
<td>A68</td>
<td>Soluble Epoxide Hydrolase Blockade at Reperfusion Reduces Extent of Cerebral Injury after Focal Ischemia in Mice</td>
<td>Robert E. Shangraw, Nabil Alkayed, Wenri Zhang</td>
</tr>
<tr>
<td>A69</td>
<td>The Lower Limits of Neonatal Cerebral Autoregulation during Congenital Cardiac Surgery</td>
<td>Eric L. Vu, Brendan L. Smith, Craig G. Rusin, R. B. Easley, Dean Andropoulos, Ken M. Brady</td>
</tr>
<tr>
<td>A70</td>
<td>Anesthetic Hysteresis Collapses on a Timescale Unrelated to Pharmacokinetics</td>
<td>Andrzej Wasilczuk, Andrew McKinstry-Wu, Benjamin Harrison, Bo Ku, Juliette Palermo, Paula Kwasniewska, Max B. Kelz, Alexander Proekt</td>
</tr>
<tr>
<td>A71</td>
<td>Regulation of Neuroinflammation and NLRP3 Inflammasome Signaling in Perioperative Neurocognitive Disorders</td>
<td>Zhiquan Zhang, Qing Ma, William Barclay, Ramona M. Rodriguiz, William Wetsel, Mari Shinohara, Niccolo Terrando</td>
</tr>
<tr>
<td>A72</td>
<td>The Impact of Psychopathological Conditions on In-Hospital Opioid Consumption and Pain Scores Following Laparoscopic Sleeve Gastrectomy for Obesity</td>
<td>Joe Cerasuolo, Roman Schumann, Mohammad Dahlawi, Amr Jijakli, Sajani Shah, Iwona Bonney, Sara Morrison</td>
</tr>
</tbody>
</table>
A73. Opioid-Free Anesthesia in Bariatrics: Does It Make a Difference?  
Masha Zeltsman, Judith Aronsohn, Madina Gerasimov, Greg Palleschi, Oonagh Dowling

A75. Prenatal, Labor, and Postpartum Pain Are Predictors for Postpartum Depression Symptoms: A Prospective Observational Study  
Grace Lim, Kelsea Lasorda, Lia M. Farrell, Ann McCarthy, Francesca Facco

A76. Usage of ‘Big-Data’ Analysis for Choosing the Optimal Timing of Epidural Analgesia in Primiparae and Multiparae in a Retrospective Electronic Medical Record (EMR) Based Study  
Eshel A. Nir, Michal Lipschuetz, Sarah M. Cohen, Joshua Guedalia, Ron Unger, Simcha Yagel

A77. Evaluation of Ultrasound-Guided Vena Cava Diameter Measurement to Predict Hemodynamic Changes after Labor Epidural Analgesia  
Efrain Riveros Perez, Justin Dumrongkulraksa, Maria G. Sanchez, Alexander Rocuts

A78. Biased Properties Observed with Opioid Reward and Relapse in the Presence of Incisional Injury in Mice  
Chinwe Nwaneshiudu, Xiao You Shi, David Clark

A79. Impact of an Interactive Music App on Pain Threshold, Temporal Summation, and Conditioned Pain Modulation in Healthy Volunteers  
Kristin L. Schreiber, Jasmine Gale, Peter Chai, Richard B. Boyer, Robert R. Edwards

A80. PGC-1α Haploinsufficiency Is Related to Pain Chronification after Burn Injury  
Shiqian Shen, Jiamin Miao, Xue Zhou, Weihua Ding, Zerong You, Jianren Mao

A81. An Earlier Educational Intervention in Residents Improves Knowledge of Non-Opioid Acute Pain Management in the In-Patient Hospital Setting  
Harpreet Dhiman, Jennifer Knuth, Melissa Ehlers, Anthony Ocon, Yi Zhou, Henry Nagle, Ravneet Bhullar

A82. Effect of Catechol-O-Methyltransferase (RS4680) Single Nucleotide Polymorphism on Opioid Induced Hyperalgesia in Adults with Chronic Pain  
Danqing Hu

A83. Individualized Anesthesia and Surgical Risk Assessment: A Multi-Center Study  
Joshua A. Bloomstone, Jessica Curran, Tania Haddad, John Jordan, Rafael Noriega, Jennifer Pedersen, Kelli Duarte, Deb Farley, James Steinshouer, Kellie Kieffer, David Sheinbein

A84. Sedation Complications by Non-Anesthesia Providers May Be Related to Standards of Training  
Jacquelyn Francis, Vilma Joseph

A85. Procedures Associated with Anesthetic Complications in the United States  
Abigail Souryal, Ali Seifi

A86. Educational Interventions to Prevent Perioperative Syringe Swaps of High-Alert Medications  
Jamie Sparling, Douglas Choe, Allison Doney, Jeremi Mountjoy, Aalok V. Agarwala, Kathy Kong, Leo Tabayoyong, May C. Pian-Smith
A87. Solutions for Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema in a High Risk Population: A Single Center Retrospective Observational Study
Tracey Straker, Alexandra Bastien, Dahlia Townsed, Singh Nair

A89. Safety of Prophylactic Antifibrinolytics in Children Undergoing Spinal Fusion
Lisa Eisler, Minjae Kim, Lena Sun, David Faraoni

A90. Identifying Unnecessary Blood Transfusions in Patients Undergoing Craniofacial Surgery using National Craniosynostosis Registry Dataset
Allison M. Fernandez, Lillian Zamora, Ali Jalali, Luis Ahumada, Jim Fackler, Mohamed Rehman

A91. Preventing Spinal Cord Injury & Infarction in Patients with Mucopolysaccharidosis during Non-Spine Surgery
Jonathan Halem, Mary C. Theroux, William G. Mackenzie, Phoebe Fisher, Anthony Dinardo

A92. A Neonatal Cardiac Arrest: What Could Be Happening?
Adnan R. Khan, Ana Crnkovic, Melissa Ehlers

A93. The Role of Preoperative Multi-Modal Analgesia Following Pediatric ENT Surgery
Brooke Leblanc, Sarah Martin, Luis Salcedo, Bobby D. Nossaman

A94. The Electroencephalographic Signature of Spinal Anesthesia in Infants: A Multi-Center Pilot Study
Emmett Whitaker, Jerry Y. Chao, Elissa Yozawitz, Alan Legatt, Gregory L. Holmes, Robert Williams
Junior Faculty Travel Award in Pediatric Anesthesia

A95. Propofol Toxicity in Cardiomyocyte Mitochondria of Developing Mice: The Role of the Mitochondrial Transition Pore
Richard J. Levy, Matthew Barajas, Sarah Brunner, Aili Wang, Lifei Wang

A96. Spinal Anesthesia in Neonates Presenting for Infraumbilical Surgeries Can Improve Operating Room Utilization in Addition to Reducing Risk for Postoperative Apnea and Hemodynamic Fluctuations
Chang Amber Liu

A97. Temporal Changes in the Frequency of Intraoperative Hypotension in Children
Jonathan A. Sohn, Bishr Haydar, Aleda Thompson, Shobha Malviya, Olubukola O Nafiu

A98. Focused Transthoracic Echocardiography and Peri-Operative Cardiac Arrest: Feasibility Study
Nibras Bughrara, Susan L. Herrick, Krishnaveni Sirigaddi, Kevin Roberts, Aliaksei Pustavoitau

A99. Benzodiazepine Use after Discharge from Inpatient Surgery
Adlei B. Carlson, Lena Mayes, Ana Fernandez-Bustamante, Karsten Bartels

A100. Peripheral Nerve Blocks: An Approach Towards Opioid Free Laparoscopic Living Donor Nephrectomy
Nikhil Chawla, Ranjit Deshpande, Elizabeth Cohen, Claudia Fernandez-Robles, Nikhil Chawla, Vincent Do, Ramesh Batra
A101. A Novel Method of Crosslinking Mass Spectrometry Identifies Distinct Alpha 2 Macroglobulin Crosslinks in Pathological Coagulation
Nathan Clendenen, Rachel Henderson, Nathaen Weitzel, Angelo D’Alessandro, Kirk Hansen

A102. The Effect of Perioperative Use of Normal Saline Solution As Compared to Balanced Crystalloids on Graft Function in Patients Undergoing Living Donor Kidney Transplantation
Kerstin Kolodzie, Eshandeep S. Boparai, Ozlem S. Cakmakkaya, Mehdi Tavakol, John Feiner, Claus U. Niemann

A103. Current Evidence of Intravenous vs Volatile Anesthesia on Breast Cancer Surgery Outcome
Jun Lin

A104. Quantifying the Impact of Physician Supervision on Nurse Anesthetists’ Risk-Adjusted Antiemetic Prophylaxis
Stephan Maman, Michael H. Andreae

A105. A Pilot Feasibility Trial of Physical and Cognitive Prehabilitation to Improve Outcomes in Surgical Patients
Kimberly Rengel, Nitin Mehdiratta, Susan Vanston, Kristin Swygert, Jim Jackson, Pratik Pandharipande, Christopher G. Hughes

A106. Association Between Preoperative Opioid Weaning and Subsequent Long-Term Opioid Use: A Retrospective Analysis
Christopher Rishel, Martin S. Angst, Eric Sun

A107. The Pattern of Perioperative High-Density Lipoprotein Particle Loss Is Independently Associated with Acute Kidney Injury after Cardiac Surgery
Loren Smith, Derek K. Smith, Alan T. Remaley, Macrae F. Linton, Frederic T. Billings

A108. Ultrasound Guided Supraclavicular vs Retroclavicular Block of the Brachial Plexus: Comparison of Impact on Ipsilateral Diaphragmatic Function
Paige L. Georgiadis, Kamen Vlassakov, Philipp Lirk, Jose Zeballos, Kristin Schreiber

A109. Merging Physics with Anesthesia: The Sota Omoigui Short Needle Technique for Interventional Procedures
Sota Omoigui

A110. Ultrasound Guided Stellate Ganglion Block for the Treatment of Electrical Storm Refractory to Percutaneous Ablation: A Case Report
Estuardo J. Saravia Fernandez, Paramvir Singh

A111. Correlation Between Lung Mechanics Parameters during Abdominal Surgery and Plasma Levels of Biomarkers of Lung Injury
Ana Fernandez-Bustamante, Juraj Sprung, Karsten Bartels, Carolina Kosour, Toby Weingarten, Marcos Vidal Melo
ABOUT
The Association of University Anesthesiologists bolsters academic anesthesiology through:
• Deliberate mentorship of academic anesthesiologists, under the rubric of faculty development
• Programmatic and ongoing career development of anesthesiology researchers, educators, and academic leaders throughout their careers
• The organization of an outstanding annual academic meeting
• Targeted provision of networking opportunities to academic anesthesiologists

AUA MEMBER BENEFITS
• Discounted pricing for the AUA Annual Meeting
• Discounted membership in the IARS
• Free digital newsletter AUA Update
Renew Membership AUAhq.org/renew

NOMINATE A COLLEAGUE FOR AUA MEMBERSHIP:
Active Member
• National or international reputation
• If research track, mature body of funded work with impact in field
• If educational track, innovation and influence beyond institution
• If leadership track, major national and/or institutional leadership roles

Associate Member
• Institutional or statewide reputation, with potential for national recognition
• If research track, evidence of developing research program or training grant
• If educational track, evidence of teaching excellence and departmental contributions
• If leadership track, evidence of leadership role or trajectory

Affiliate Member
• An individual who has made distinguished contributions to academic anesthesiology, but does not have a primary faculty appointment.
Visit auahq.org/nominations to review guidelines, learn more about membership types, and to submit the nomination form.

IMPACT AWARDS
Multicenter Pragmatic Anesthesiology Clinical Trials (IMPACT) Program
May 19, 2019 | Montreal, Canada
Join us for our second ‘Initiative for Multicenter Pragmatic Anesthesiology Clinical Trials’ (IMPACT) program during the IARS, AUA, SOCCA Annual meetings.
The program will showcase promising pragmatic trials from some of tomorrow’s leaders in anesthesiology research. The meeting is open to those interested in anesthesiology-related clinical and translational science. To learn more, visit auahq.org/impact-award
A112. The Bronchodilator and Nutraceutical Ginger Reduces Lung Inflammation in a Murine Asthma Model  
Julie J. Hwang, Gene T. Yocum, Charles W. Emala

A113. Natural Components of Ginger Relax Airway Smooth Muscle via Inhibition of Multiple Cell Signaling Events  
Elvedin Lukovic, Yi Zhang, Charles W. Emala

A114. Retinal Derivatives Shifts Wavelength Sensitivity of Airway Smooth Muscle Photorelaxation  
Peter Yim, Amy Wu, William Dan, Charles W. Emala

A115. The Analysis of Pediatric EEG using Poincaré Plot after a Fast Fourier Transformation Under Sevoflurane Anesthesia  
Kazuma Hayase, Teiji Sawa

A116. Preoperative Left Ventricular Energy Loss in the Operating Theater Reflects Subjective Symptoms in Patients with Chronic Aortic Regurgitation  
Atsushi Kainuma, Koichi Akiyama, Yoshifumi Naito, Mao Kinoshita, Masaru Shimizu, Maki Ishii, Junya Ohara, Teiji Sawa

A117. Hemodynamic Compensation during Selective Fetoscopic Laser Photocoagulation using the Compensatory Reserve Index  
David Leopold, Ryan Phillips, Cristina Wood, Nicholas Behrendt, Michael Zaretsky, Henry Galan, Steven Moulton

A118. Background Music Contributes to Error in the Operating Room  
Joseph Schlesinger, Kendall J. Burdick, Clayton D. Rothwell

A119. Variability in Examining Residual Neuromuscular Blockade after the Use of Neuromuscular Blocking Agents: A Systematic Review of Randomized Controlled Trials  
Amit D. Raval, Jennifer Uyei, Vamshi Ruthwik Anupindi, Cheryl P. Ferrufino, Andreas Karabis, Diana Arper, Lori D. Bash, Sorin Brull

A120. Predicting Need for Trauma Center Admission Emergency Intubation: Comparison of Field Glasgow Coma Scale with In-Flight Patient Vital Signs  
Peter F. Hu, Shiming Yang, Doug Floccare, Samuel Galvagno, Chien-Yu Lin, Dennis C. Winans, Catriona Miller, Colin Mackenzie, Peter Rock

A121. Circulating Plasma Mirnas Trigger Innate Immune Activation in a Mouse Model of Polytraumatic Injury  
Andrew O. Suen, Sheng Wang, Lin Zou, Rosemary Kozar, Catriona Miller, Wei Chao
### B150. Anesthetic Sensitivities in the Zebrafish
*Victoria Bedell, Jayce Breig, Micheal A. Pack, Max B. Kelz, Roderic G. Eckenhoff*

### B151. A Sevoflurane Binding Site in Ryanodine Receptor 1
*Thomas T. Joseph, Grace Brannigan, Roderic G. Eckenhoff, Kellie Woll*

### B152. RNA-Seq Analysis of Rat Frontal Lobe, Hippocampus, and Amygdala after Long-Term Administration of Ketamine and Isoflurane Anesthesia
*Jenny Kim, Matt Sapio, Amelia LoydSpierson, Michael Iadarola, Andrew Mannes*

### B153. GABA<sub>A</sub> Receptor Actions of ABP-700 and Its Carboxylic Acid Metabolite CPM-Acid: Implications for Toxicological Studies and Clinical Development
*Megan McGrath, Beatrix Valk, Douglas E. Raines*

### B154. Behavioral Responsiveness Fluctuates at Steady EC50 Across Species and Anesthetic Agents
*Andrew McKinstry-Wu, Andrzej Wasilczuk, Victoria Bedell, Benjamin Harrison, Max B. Kelz, Alexander Proekt*

### B155. Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight
*Stephen Ellison, Lydia Kwee, Nathan Bihlmeyer, James Bain, Damian Craig, William Kraus, Svat Shah*

### B156. Continuous Erector Spinae Plane Block Facilitates Opioid Sparing after BATS Surgery: A Case Series
*Rebecca Anderson, Rebecca Y. Klinger, Thomas D’Amico*

### B157. Discovery of Two Different Mechanisms of Spinal Cord Injury and Paralyses after Open vs Endovascular Aortic Aneurysm Repairs using Canine Models

### B158. Large Right Ventricular Outflow Tract Tumor: Anesthetic Management and Evaluation by Transesophageal Echocardiography
*Brad P. Moore, Steven Miller*

### B159. Severe Cardiac Clot Burden in Pulmonary Embolism: Evaluation by Transesophageal Echocardiography
*Brad P. Moore, Isaac Wu*

### B160. Light Elicited and Endothelial Specific PER2 Maintains Vascular Integrity during Murine Myocardial Ischemia via Metabolic Reprogramming
*Yoshimasa Oyama, Tobias Eckle*

### B161. Bacterial Sepsis Increases Fibrillar Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer’s Disease Pathology
*Jacob Basak, Collin J. Nadarajah, Lucy S. Cohen, Patrick W. Sheehan, Erik S. Musiek*

*Resident Travel Award*
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B162.</td>
<td>Hyperoxic Resuscitation Following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation</td>
<td>Gary Fiskum, Da Lee, Julie Proctor, Robert E. Rosenthal</td>
</tr>
<tr>
<td>B163.</td>
<td>Lower Oxygen Delivery Is Associated with Delirium and Death in a Single Center Retrospective Cohort Study of 1,452 Patients</td>
<td>Nathan Clendenen, Benjamin Abrams, Nathaen Weitzel</td>
</tr>
<tr>
<td>B164.</td>
<td>The Alveolar Epithelium Produces Cytotoxic Amyloids That Disrupt Naïve Alveolar-Capillary Integrity via the Receptor for Advanced Glycation End-Products</td>
<td>Brant Wagener, Jean-Francois Pittet, Angela Brandon, Ryan Berry, Steven Gu, Ronald Balczon, Troy Stevens</td>
</tr>
<tr>
<td>B165.</td>
<td>Absence of TLR7 Alleviated Acute Lung Injury in Mouse Model of Polymicrobial Sepsis</td>
<td>Lin Zou, Lili Gu, Ping Cui, Jessica Neder, Yunbo Ke, Anna Birukova, Konstantin Birukov, Wei Chao</td>
</tr>
<tr>
<td>B166.</td>
<td>Performance at Simulated Endotracheal Intubation Can Predict Trainee Clinical Success</td>
<td>Randolph H. Hastings, Jericho Hallare, Benjamin Lurie, Rodney A. Gabriel, Preetham Suressh</td>
</tr>
<tr>
<td>B168.</td>
<td>Patient Attitudes to Smoking Cessation in the Perioperative Setting</td>
<td>Viji Kurup, Danielle Mcglynn, Cheryl K. Zogg</td>
</tr>
<tr>
<td>B170.</td>
<td>Use of 30-Day Versus 90-Day Mortality Rates Following Cardiac Surgery to Compare Quality in New York State</td>
<td>Aaron Mittel, Dae Hyun Kim, Zara Cooper, Michael Argenziano, May Hua</td>
</tr>
<tr>
<td>B171.</td>
<td>How Do Patients Who Respond to Anesthesia Satisfaction Surveys Differ from Patients Who Choose to Not Respond?</td>
<td>Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick</td>
</tr>
<tr>
<td>B172.</td>
<td>Posterior Cerebellar Strokes in Mice Cause Memory and Hippocampal Synaptic Plasticity Impairments</td>
<td>Nidia Quillinan, Myriam Moreno-Garcia, James Orfia</td>
</tr>
<tr>
<td>B173.</td>
<td>Cell-Type Specific Expression of Anesthetic Target Proteins Parallels Cell-Type Selective Effects of Isoflurane in Mouse Frontal Lobe in Vivo</td>
<td>Andrew Hudson</td>
</tr>
<tr>
<td>B174.</td>
<td>Drug-Specific Training Improves the Performance of an Automatic Brain-State Prediction Model</td>
<td>Kimia Kashkooli, Sam Polk, Shubham Chamadia, Eunice Hahm, Juan C. Pedemonte, Oluwaseun Johnson-Akeju</td>
</tr>
<tr>
<td>Poster Number</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>B175.</td>
<td>Pharmacological Induction of Sirtuin 3 Confers Neuroprotection in a Novel Rat Model of Lethal Hemorrhagic Shock Treated by Emergency Preservation and Resuscitation</td>
<td>Qing Ma, Zhiquan Zhang, Joseph P. Mathew, Niccolo Terrando, Mihai Podgoreanu</td>
</tr>
<tr>
<td>B176.</td>
<td>Sprouted Mossy Fibers Drive Epileptiform Activity in Mice after Brain Insults</td>
<td>Eric Schnell, William D. Hendricks, Gary L. Westbrook</td>
</tr>
<tr>
<td>B177.</td>
<td>Mithramycin Attenuates DNA Damage-Induced Apoptosis in Rat Primary Cortical Neurons by Inhibiting Mitochondrial Membrane Permeabilization</td>
<td>Bogdan Stoica, Oleg Makarevich, Nicholas Braganca, Niaz Khan, Boris Sabirzhanov</td>
</tr>
<tr>
<td>B179.</td>
<td>Postoperative Motivational Interviewing Based Opioid Tapering to Promote Opioid Cessation in Adults Undergoing Orthopedic Surgery: A Randomized Clinical Trial</td>
<td>Jennifer Hah, Partha Krishnamurthy, Heather Hilmoe, Ian Carroll, Sean Mackey</td>
</tr>
<tr>
<td>B181.</td>
<td>Predicting Analgesia by Acupuncture using Machine Learning Techniques</td>
<td>Jiang-Ti Kong, Lu Tian, Sean Mackey</td>
</tr>
<tr>
<td>B182.</td>
<td>Desire for Painless Surgery and Underestimation of Prescription Opioid Related Risks Prevalent in Perioperative Patients</td>
<td>Soleil Schutte, Linda Le-Wendling</td>
</tr>
<tr>
<td>B183.</td>
<td>Sustaining the Gains: A 6 Year Follow through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes</td>
<td>Ming Ann Sim, Lian Kah Ti, Sandhya Mujumdar, Sophia Chew, Mohan Kumar Bhuvaneshwari, Sophia Ang Margaret Wood Resident Research Award</td>
</tr>
<tr>
<td>B184.</td>
<td>A Deep Learning Model for Predicting 30-Day Postoperative Mortality</td>
<td>Bradley A. Fritz, Zhicheng Cui, Muhan Zhang, Yujie He, Yixin Chen, Alexander Kronzer, Arbi Ben Abdallah, Christopher R. King, Michael Avidan</td>
</tr>
<tr>
<td>B185.</td>
<td>Intraoperative Factors That Improve Risk Prediction of Postoperative Acute Kidney Injury in General Surgery Patients</td>
<td>Minjae Kim, Ravi Kiran, Guohua Li</td>
</tr>
</tbody>
</table>
B187. Incidence of Patient Safety Events Associated with Prolonged Extubation
Andrea Vannucci, Kevin Pifti, Isabella Rossi, Anne Sebastiani, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

B188. Incidence and Risk Factors of Prolonged Tracheal Extubation after General Anesthesia
Andrea Vannucci, Kevin Pifti, Anne Sebastiani, Isabella Rossi, Daniel P. Lander, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

B189. Distraction as a Means of Providing Procedural Anxiolysis for a Three Year Old with Severe Biventricular Cardiomyopathy
Adam C. Adler

B190. Exposure to Surgery and Anesthesia in Early Childhood and Subsequent Use of Stimulant Medication
Caleb Ing, Xiaoyue Ma, Ming Sun, Melanie Wall, Mark Olfson, Guohua Li

B191. Children and Adults with Congenital Heart Disease Show No Difference in Scores on Measures of Behavior As Compared to Their Healthy Peers: A Systematic Review and Meta-Analysis
William M. Jackson, Mohammad Sadat, Lena Sun

B192. Opioid-Sparing Analgesic Usage Among Pediatric Anesthesiologists: A Survey of Society for Pediatric Anesthesia Members
Michael R. King, Rebecca Wu, Thomas A. Anderson

B193. Intranasal Insulin Prevents Anesthesia-Induced Cognitive Impairment in Juvenile Mice
Patricia Roque, Tamaki Sato, Yosuke Nakadate, Hiroaki Sato, Shelly Yin, Mehdi Hooshmandi, Linda Wykes, Arkady Khoutorsky

B194. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis
Dustin R. Long, Jeannie Chan, Chloe Bryson-Cahn, John Lynch
Junior Faculty Travel Award in Perioperative Medicine

B195. Incidence of Persistent Opioid Use in Children after Surgery
Thomas A. Anderson, Andrew T. Ward, Beth De Souza, Ellen Wang, Daniel Miller, Nicholas Bambos

B196. The Impact of Nutraceutical Pre-Habilitation and Postoperative Treatment with Eicosapentanoic Acid (EPA) and Acetylsalicylic Acid on a Novel Animal Model of Recovery after Surgery
Juan Cata, Miguel Patino Montoya, Michael Lacagnina, Ruben Agudelo-Jimenez, Imad Shureiqi, Carin Hagberg, Peter Grace

B197. Deep Immune Profile of Preoperative Glucocorticoid Administration in Patients Undergoing Surgery
Brice Gaudilliere, Edward A. Ganio, Natalie Stanley, Jakob Einhaus, Amy S. Tsai, Anthony Culos, Kristen Rumer, Ramin Fallahzadeh, Viktoria Lindberg-Larsen, Henrik Kehlet, Martin S. Angst, Nima Aghaeepour
B198. Comparison of Sugammadex and Neostigmine for Reversal of Rocuronium Neuromuscular Blockade on the Incidence of Postoperative Pulmonary Complications: A Randomized Controlled Trial
Brandon M. Togioka, N. David Yanez, Michael Aziz, Janna R. Higgins, Miriam Treggiari

B199. The SANDMAN Study: Sleep Apnea, Neuroinflammation, and Cognitive Dysfunction Manifesting after Non-Cardiac Surgery
Michael Devinney, Andrew R. Spector, Jeffrey N. Browndyke, Patrick J. Smith, Jennifer Dominguez, Thomas Bunning, Mary Cooter, Joseph P. Mathew, Miles Berger

B200. Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-Specific Patterns of Intraoperative Hypotension Exposure
Michael P. Schnetz, Pritika Dasgupta, Douglas Landsittel, Harry Hochheiser, Keith M. Vogt, James W. Ibinson, Steven Whitehurst, Aman Mahajan, David Danks, Ata M. Kaynar
Resident Travel Award

B201. Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study
Seshadri Mudumbai, Fan Wu, Justin Chambers, Aditi Kapoor, Jennifer S. Lee, David Clark, Edward R. Mariano, Randall S. Stafford
Junior Faculty Research Award

B202. Different Responses of Healthy Humans Subjected to Lower Body Negative Pressure Induced Hypovolemia using Continuous Noninvasive Arterial Pressure Cycle Duration and Heart Rate
Anna-Maria E. Eid, Aymen Alian, Kirk Shelley, Mohamed Elgamal, Mohamed Eid

B203. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education
Scott M. Pappada, Mohammad H. Owais, Cristina Alvarado, Jeffrey Schneiderman, Douglas Brunner, Andrew Casabianca, James Hofmann, Thomas J. Papadimos
6:15 am – 7:15 am  
Parc Mont-Royal
Breakfast with Exhibitors

7:30 am – 8:00 am  
Av. Duluth
Welcome Address and Introduction
Daniel R. Brown, MD, PhD, Mayo Clinic, SOCCA Board of Directors Chair
Sheela Pai Cole, MD, Stanford University, SOCCA Committee on Education Chair

8:00 am – 5:00 pm  
Place du Canada / Square Dorchester
SOCCA Poster Session C: Open Viewing
For session details, see the SOCCA Posters tab.

8:00 am – 9:00 am  
Av. Duluth
Education Session I
Critical Advances, Critical Care
Moderated by Aalok K. Kacha, MD, PhD, The University of Chicago Medicine

New Anticoagulants
Ian Welsby, MD, Duke University School of Medicine

Device Update
Peter Von Homeyer, MD, FASE, University of Washington Medicine

What is New in Antibiotics
Noreen Murphy, MD, University of Wisconsin School of Medicine and Public Health

9:15 am – 10:15 am  
Av. Duluth
Education Session II
Beyond the Standard: New Resuscitation Paradigms in Critical Care
Moderated by Talia K. Ben-Jacob, MD, Cooper Medical School of Rowan University, Cooper University Hospital

Blood Pressure Targets in the ICU
Ashish K. Khanna MD, FCCP, FCCM, Wake Forest University School of Medicine

Microcirculation and the Success of Resuscitation
Kunal Karamchandani, MD, FCCP, Penn State Milton S. Hershey Medical Center

Sepsis Update
Mark Nunnally, MD, FCCM, New York University Langone Medical Center

10:15 am – 10:45 am
Break

10:45 am – 12:15 pm  
Place du Canada / Square Dorchester
SOCCA Poster Session C: Moderated Poster Discussion Sessions
For session details, see the SOCCA Posters tab.

12:15 pm – 1:15 pm
Lunch On Your Own
Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.
1:15 pm – 2:00 pm  Av. Duluth

YOUNG INVESTIGATOR PRESENTATIONS: AWARD-WINNING RESEARCH
Moderated by Robert D. Stevens, MD, FCCM, The Johns Hopkins University School of Medicine & SOCCA Committee on Education

Sheela Pai Cole, MD, Chair
Peter Von Homeyer, MD, FASE, Vice Chair
Ashish K. Khanna MD, FCCP, FCCM
Kunal Karamchandani, MD, FCCP

Introduction
Sheela Pai Cole, MD, Stanford University; Chair, SOCCA Committee on Education

Young Investigator Award 2nd Runner-up Presentation
The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults
Thomas Bunning, BS, Duke University Medical Center

Young Investigator Award 1st Runner-up Presentation
Sustaining the Gains: A 6-year follow through of the Impact of a Hospital-Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes
Ming Ann Sim, MBBS, National University Hospital Singapore

Young Investigator Award Winner Presentation
Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability
Domagoj Mladinov, MD, PhD, University of Alabama at Birmingham

2:00 pm – 2:55 pm  Av. Duluth

Lifetime Achievement and Burchardi Presentations: Award-Winning Research
Moderated by Mark Nunnally, MD, FCCM, New York University Langone Medical Center

Lifetime Achievement Award Presentation
Patient Blood Management in the ICU
Aryeh Shander, MD, FCCM, FCCP, FASA, Englewood Hospital and Medical Center

Burchardi Award Presentation
Michael O’Connor, MD, The University of Chicago Medicine

3:00 pm – 3:30 pm
Break
57 FRIDAY, MAY 17: SOCCA

3:30 pm – 4:30 pm  Av. Duluth

Education Session III
Doctoring and Social Media
Moderated by Sheela Pai Cole, MD, Stanford University School of Medicine, SOCCA Committee on Education Chair

Of Tweets, Retweets, Hashtags, Likes and Dislikes: A Guide to Terminology and Etiquette
Sheela Pai Cole, MD, Stanford University School of Medicine

I Tweet Critical Care: I Cannot Do Without It
Vivek Moitra, MD, Columbia University Medical Center

I Think It’s a Distraction: Several Reasons to Thrive Without It
Sree V. Satyapriya, MD, The Ohio State University - Wexner Medical Center

5:30 pm – 6:30 pm  Square Victoria

Scholars’ Program Mentoring and Networking Reception
Meet and network with the leaders of the anesthesiology field – and Scholars’ Program participants will be paired with mentors.

This reception is part of the Scholars’ Program, and a ticketed event, visit registration for details.

4:45 pm – 5:45 pm  Av. Duluth

Education Session IV
Final Priorities: Ethics and Quality of Life
Moderated by Allison Dalton, MD, The University of Chicago Medicine

Ethics Consultation
Nicholas Sadovnikoff, MD, Brigham and Women’s Hospital

Role of Palliative Care
May Hua, MD, MSc, Columbia University

Value and Cost: End of Life Matters
Michael Nurok, MBChB, PhD, FCCM, Cedars-Sinai Medical Center

5:45 pm – 6:00 pm  Av. Duluth

Closing Remarks
Daniel R. Brown, MD, PhD, Mayo Clinic, SOCCA Board of Directors Chair
Sheela Pai Cole, MD, Stanford University School of Medicine, SOCCA Committee on Education Chair

6:00 pm – 6:30 pm  Av. Duluth

SOCCA Business Meeting

6:30 pm – 8:00 pm

Reception with Exhibitors

7:00 pm – 8:30 pm

Taste of Montreal Dine-Around
If you haven’t already, be sure to pre-register for this intimate dining experience at registration. Space is limited; dinner costs are the responsibility of each attendee.

Be sure to stay for Aligned Meeting Day tomorrow, May 18, at the Fairmont The Queen Elizabeth hotel — every IARS, AUA and SOCCA attendee is welcome at every session! See the IARS Sessions tab for Saturday’s details.
THE SOCIETY OF CRITICAL CARE ANESTHESIOLOGISTS

JOIN

SOCCA is an educational organization that fosters the role of anesthesiologists as perioperative specialists and provides for continuing education and interchange of ideas.

Benefits include:
- Discounted pricing for the SOCCA Annual Meeting
- Discounted membership in the IARS
- Free ICU Residents’ Guide
- Free digital newsletter SOCCA Interchange

SOCCA.org/join

VOLUNTEER

SOCCA committees provide an excellent opportunity to get involved and make a difference in the Critical Care Anesthesia community.

- Engage with other members and make an impact on issues in Critical Care Anesthesia
- Collaborate and grow your knowledge and skills to support professional development
- Network with other SOCCA members

Get involved with a committee
Communications | Education | Membership | Nomination | Research

SOCCA.org/volunteer

RENEW

SOCCA is dedicated to the support and development of anesthesiologists who care for critically ill patients of all types. SOCCA fosters the knowledge and practice of critical care medicine by anesthesiologists through education, research, advocacy, and community.

SOCCA.org/renew

@SOCCA_CritCare
All poster sessions, the Poster Information desk, and the Call4Posters™ desk are located in the Place du Canada and Square Dorchester Rooms.

SOCCA Poster Sessions are grouped based on subspecialty topic and will include an open poster viewing time and a moderated poster discussion session.

**SOCCA POSTER SESSION C: FRIDAY, MAY 17**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am – 7:30 am</td>
<td>Setup</td>
</tr>
<tr>
<td>8:00 am – 5:00 pm</td>
<td>Open Viewing</td>
</tr>
<tr>
<td>10:45 am – 12:15 pm</td>
<td>Moderated Discussion Session</td>
</tr>
<tr>
<td>5:00 pm – 5:30 pm</td>
<td>Breakdown</td>
</tr>
</tbody>
</table>

**Viewing e-Posters**
e-Posters are available for viewing throughout the Annual Meetings at [http://tiny.cc/lr3l5y](http://tiny.cc/lr3l5y).

**Call4Posters™ Pick-up**
Orders placed through Call4Posters™ will be available for pick-up at the Call4Posters™ Desk.

- Thursday, May 16: 7:00 am – 1:30 pm
- Friday, May 17: 7:00 am – 1:30 pm
<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway Management</td>
<td>C1-5</td>
</tr>
<tr>
<td>Ambulatory Anesthesia</td>
<td>C6-10</td>
</tr>
<tr>
<td>Anesthetic Pharmacology</td>
<td>C11-12</td>
</tr>
<tr>
<td>Blood Management</td>
<td>C13-15</td>
</tr>
<tr>
<td>Cardiovascular Anesthesiology</td>
<td>C16-19</td>
</tr>
<tr>
<td>Critical Care</td>
<td>C20-63, C135</td>
</tr>
<tr>
<td>Economics, Education and Policy</td>
<td>C64-70</td>
</tr>
<tr>
<td>Geriatric Anesthesia</td>
<td>C128</td>
</tr>
<tr>
<td>Medically Challenging Cases</td>
<td>C71-114</td>
</tr>
<tr>
<td>Neuroscience in Anesthesiology and Perioperative Medicine</td>
<td>C115-122</td>
</tr>
<tr>
<td>Obesity</td>
<td>C127</td>
</tr>
<tr>
<td>Pain Medicine</td>
<td>C123-124</td>
</tr>
<tr>
<td>Patient Safety</td>
<td>C125-126</td>
</tr>
<tr>
<td>Perioperative Anesthesia</td>
<td>C129-134, C136-138</td>
</tr>
<tr>
<td>Regional Anesthesia</td>
<td>C139-140</td>
</tr>
<tr>
<td>Technology, Computing and Simulation, Equipment Monitoring</td>
<td>C141-145</td>
</tr>
</tbody>
</table>
C1. The Completeness of Intubation Documentation in Urgent and Emergent Non-Operating Room Settings Between Different Record Formats
Claudia Bruguera, Roman Schumann, Dana Arekat, Natalia Stamas, John Adam Reich, David Moss, Edward Hong, Jacob Ludington, Andrea Tsai

C2. A Difficult Airway Early Warning System in Patients at High Risk for Clinical Decompensation: A Feasibility Study
Anna Budde, Stephen Estime

C3. A Difficult Airway in the ICU: Complicated by a Bronchoesophageal Fistula
Jessica H. Kruse, Laurie Mark

C4. Anesthesia-Related Aspiration of Gastric Contents: A Retrospective Review of Recent Cases in a Large Teaching Hospital
Alexander Nagrebetsky, Daewoong Lee, Paul Howard, Lorenzo Berra, Edward Bittner

C5. A Pilot Study to Determine the Accuracy of Ultrasound in Measurement of the Dimensions of the Pediatric Cricothyroid Membrane
Bill A. Walsh, Paul Fennessy, Roisin Ni Mhuircheartaigh, Aisling Snow, Kevin McCarty, Conan McCaul

C6. The Effect of Systemic Lidocaine on Post-Operative Opioid Consumption in Ambulatory Surgical Patients: A Meta-Analysis of Randomized Controlled Trials
Danielle Lovett-Carter, Mark C. Kendall, Gildasio S. Deoliveira

C7. Does the Use of Intravenous Patient Controlled Analgesia (IPCA) Increase Opioid Consumption and Side Effects in Fast Track Orthopedic Procedures?
Sameh M. Abdelghany, Zeev Friedman, David Backstein, Jaclyn Ricci, Xiang Y. Ye, Naveed Siddiqui

C8. Thoracoplasty Under Thoracic Epidural Anesthesia: A Case Report
Satish Dhashmana

C9. High Rates of Postoperative Opioid Overprescription Following Ambulatory Breast Surgery
Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

C10. High Rates of Postoperative Opioid Overprescription Following Minimally Invasive Ambulatory Surgery
Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

C11. Propofol Toxicity in Cardiomyocyte Mitochondria of Developing Mice: The Role of the Mitochondrial Transition Pore
Matthew Barajas, Richard J. Levy, Sarah Brunner, Lifei Wang, Aili Wang

C12. Effects of Propofol and Its Components on Neutrophils Migration and Macrophages Obtained from Lung and Adipose Tissue of Obese Rats: An in Vitro Study
Luciana B. Heif, Fernanda F. Cruz, Mariana Antunes, Cassia Lisboa, Lais Agra, Rebecca Bose, Soraia Abreu, Paolo Pelosi, Pedro L. Silva, Patricia R. Rocco
C13. Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability
Domagoj Mladinov, Kristine Yarnoff, Enika Nagababu, Dan Berkowitz, Courtney Lawrence, Paul Ness, Thomas Kickler, Patricia Brunke, Joan Boyd, Jeffrey Dodd-O
Young Investigator Award - Winner

C14. Platelet Functionality Is Decreased after Infusion through a Rapid Infusion System
Shahrukh Bengali, Ilan Keidan, Nikolaus Gravenstein, Jeffrey D. White, Joshua Sappenfield

C15. Hospital Discharge Hemoglobin Values and Post-Hospitalization Outcomes for Transfused Non-Cardiac Surgery Patients
Mitchell Kerfeld, Matthew Warner, Daryl J. Kor, Ryan Frank, Andrew Hanson, Melissa Passe

C16. Mitral Valve Repair Complicated by Left Circumflex Coronary Artery Occlusion: The Vital Role of the Anesthesiologist
Andres Bacigalupo Landa, Jayanand D’Mello

C17. Myocardial Post-Conditioning with CPG-Containing TLR9 Ligand 1668-Thioate Modulates Inflammatory Response and Remodeling Resulting in Less Fibrosis and Better Left Ventricular Function in Mice
Daniel Dürr, Shuijing Wu, Max Schneider, Vanessa Marggraf, Luise Verfuerth, Stilla Frede, Christina Weisheit, Olaf Boehm, Oliver Dewald, Georg Baumgarten, Pascal Knüfermann, Se-Chan Kim

C18. Large Right Ventricular Outflow Tract Tumor: Anesthetic Management and Evaluation by Transesophageal Echocardiography
Brad P. Moore, Steven Miller

C19. Severe Cardiac Clot Burden in Pulmonary Embolism: Evaluation by Transesophageal Echocardiography
Brad P. Moore, Isaac Wu

C20. Diagnostic and Prognostic Implications of Peak Leukocyte Count in the Intensive Care Unit
Nafeesa Alibhai, Bijan Teja, Naheed Jivraj, Sameer Hirji

C21. Effect of Preoperative Opioid Use on Outcomes after Cardiac Surgery: A Focus on Coronary Artery Bypass Grafting and Valve Surgery
Caryl Bailey, Robert White, Roniel Weinberg, Alina Boltunova, Xiaoyue Ma

C22. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer’s Disease Pathology
Jacob Basak, Collin J. Nadarajah, Lucy S. Cohen, Patrick W. Sheehan, Erik S. Musiek

C23. Early Mobility in the Cardiothoracic Surgical Intensive Care Unit: A Quality Improvement Study
Michael W. Best, Layne Madden, Matthew Wiepking, Salila Hashmi, Maxwell Hockstein, Craig S. Jabaley, Mark Caridi-Scheible
C24. Carbon Footprint of the Critically Ill: An Economic Input-Output Analysis of the ICU and the Environmental Impact of Delayed Patient Discharge Due to Bottleneck in Availability of Lower Acuity Beds
    Adjoa Boateng, Jodi Sherman

C25. Assessing Sleep Quality and Delirium Prevalence in Cardiac ICU Patients
    Claudia Bruguera, Dana Arekat, Ina Zaimi, Andrea Tsai

C26. A Single-Center Retrospective Pilot Analysis of ICU Delirium and Its Relationship to Glucose Variability
    Zyad J. Carr, Ahmad Parniani, Kunal Karamchandani, Jeffrey J. Kowaleski

C27. A Single-Center Retrospective Study of Perioperative Outcomes in Patients with Interstitial Lung Disease: A Strong Association Between Gender and Outcomes
    Zyad J. Carr, James Francescangeli, Brittany McDowell, Kunal Karamchandani

C28. Adverse Outcomes Associated with Absent or Delayed β-Blocker Administration after Cardiac Surgery
    Emily Chanan, Germaine Cuff, Samir Kendale, Aubrey Galloway, Mark Nunnally

C29. Cardiac Arrest Secondary to R-on-T Phenomenon Caused by Temporary Epicardial Pacemaker Following Cardiac Surgery
    Michelle Chen, Tichaendepi Mundangepfupfu

C30. Successful Extracorporeal Membrane Oxygenation Utilization for Refractory Acute Respiratory Distress Syndrome Following Orthotopic Liver Transplantation Re-Exploration for Intra-Abdominal Hemorrhage
    Anna Ciullo, Suzanne Bennett

C31. A Case of Intentional Flecainide Overdose Managed with VA-ECMO
    Carla De La Cruz, Tichaendepi Mundangepfupfu, Marcus Behrens, Michael L. Hall

C32. Bronchoesophageal Fistula Requiring VV ECMO Following Minimally Invasive Esophagectomy
    David Douin, Tim Tran

C33. Perioperative Transfusion Requirements in Veno-Venous Extracorporeal Membrane Oxygenation (ECMO) Patients Undergoing Non-Cardiac Surgical Procedures
    Michael A. Fierro, Brandi Bottiger, David Ranney, Mani Daneshmand, Desiree Bonadonna, John Haney, Jacob Klapper, Matthew Hartwig, Michael Manning, Raquel R. Bartz

C34. The Attributable Mortality from Bleeding Complications Exceeds the Attributable Mortality from Thrombotic Complications
    Robert E. Freundlich, Melissa L. Bellomy, Milo Engoren, Frederick W. Lombard, Barbara J. Martin, Yaping Shi, Matthew Shotwell
<table>
<thead>
<tr>
<th>Poster No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>C35</td>
<td>Blood Leak False Alarm: A Consequence of Hydroxocobalamin Treatment for Acute Cyanide Poisoning</td>
<td>Stephen M. Harden, Louisa Palmer</td>
</tr>
<tr>
<td>C36</td>
<td>Successful Use of Veno-Arterial Extracorporeal Membrane Oxygenation in a Patient with Acute Subdural Hematoma</td>
<td>Jason Huston, James D. Bacon, Kevin W. Hatton, Brian Fischer</td>
</tr>
<tr>
<td>C37</td>
<td>Racial and Ethnic Differences in Healthcare Utilization Following Severe Acute Brain Injury</td>
<td>Rayleen Jones, Vijay Krishnamoorthy, Karthik Raghunathan</td>
</tr>
<tr>
<td>C38</td>
<td>Veno-Venous Extracorporeal Membrane Oxygenation for Management of Severe Acute Respiratory Distress Syndrome Secondary to Epstein-Barr Virus</td>
<td>Caitlin Kapurch, Nathan Peffley</td>
</tr>
<tr>
<td>C40</td>
<td>Outcomes in Patients with Post-Operative Vasoplegia Receiving Angiotensin-II for Vasodilatory Shock</td>
<td>Ashish K. Khanna, Bruce Friedman, Caleb Mackey, Rakshit Panwar, Adam Evans, Laith Altaweel, Damian Handisides, Annette C. Chavez, Ara Klijian</td>
</tr>
<tr>
<td>C41</td>
<td>Modifiable Risk Factors of Prolonged Dependence on Vasopressors after Cardiac Surgery: A Retrospective Cohort Study</td>
<td>Loay Kontar, William B. Souligny, Vincent Bouchard-Dechène, Antoine Rochon, Sylvie Levesque, Matthias Jacquet-Lagrèze, Yoan Lamarche, Denis Babin, André Denault</td>
</tr>
<tr>
<td>C42</td>
<td>Trends in Tracheostomy Utilization after Severe Acute Brain Injury in the United States</td>
<td>Vijay Krishnamoorthy, Monica S. Vavilala, Abhijit V. Lele, Karthik Raghunathan, Claire Creutzfeldt</td>
</tr>
<tr>
<td>C43</td>
<td>Veno-Arterial-Venous Extracorporeal Membranous Oxygenation as a Salvage Technique for Differential Hypoxia</td>
<td>Rebecca Lee, Liang Shen</td>
</tr>
<tr>
<td>C44</td>
<td>One Year Follow Up of Standardized Handover Implementation in CVICU</td>
<td>Monica I. Lupei, Nishkruti Munshi, Alexander M. Kaizer, Luke Patten, Joyce A. Wahr</td>
</tr>
<tr>
<td>C45</td>
<td>Incidence and Diagnoses of ‘Short-Stay’ Critical Care Admissions from the Emergency Department</td>
<td>Layne Madden, Deepa Patel, Mengyu Di, Justin Schrager</td>
</tr>
<tr>
<td>C46</td>
<td>Standardization of the Patient Handoff Process Between or Anesthesia Providers and SICU Providers</td>
<td>Maram Marouki, Piyush Mathur, Sandeep Khanna, Maged Y. Argalious</td>
</tr>
<tr>
<td>C47</td>
<td>The Effect of Sedation on Long-Term Psychological Impairment Following Extracorporeal Life Support</td>
<td>Michael D. McDonald, Madeline Henry, Colby Gallagher, Meghan Lane-Fall, Emily J. Mackay, Todd A. Miano, Jacob Gutsche</td>
</tr>
<tr>
<td>Poster Number</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C48</td>
<td>In Hospital Mortality, Complications, and ICU Length of Stay after Ventricular Assist Device Implantation: A Single Center Case Review</td>
<td>Rachael Mintz-Cole, Andrea Yoder, Abdulaziz Almehlisi, Kimberly S. Robbins, Albert P. Nguyen, Ulrich Schmidt</td>
</tr>
<tr>
<td>C49</td>
<td>Post-Operative Fever, Leukocytosis, and Circulatory Shock: A Case of Significant Inferior Vena Caval Thrombosis Mimicking Sepsis</td>
<td>Ian W. Molyneaux, Priyesh Patel</td>
</tr>
<tr>
<td>C50</td>
<td>The Platelet and Aortic Struggle: A Case of ITP and Severe Bioprosthetic Aortic Stenosis for Orthopedic Surgery</td>
<td>Jenny Pennycuff, Beth M. Teegarden, Amir Jafari</td>
</tr>
<tr>
<td>C51</td>
<td>Altered Mental Status in the CTICU after CABG Complicated by Profound Vasoplegia: A Case of Serotonin Syndrome</td>
<td>Yan Povrovskiy, James D. Bacon</td>
</tr>
<tr>
<td>C52</td>
<td>Role of Syndecan-1 and Disruption of Glycocalyx in Critically Ill Patients with Ventricular Assist Devices (VAD) and Extracorporeal Membrane Oxygenation (ECMO)</td>
<td>Dorothea Rosenberger, T. McKai Wood</td>
</tr>
<tr>
<td>C53</td>
<td>Systolic Anterior Motion of the Mitral Valve Following Recovery from Cardiogenic Shock</td>
<td>Michelle M. Salloum, Emily T. Poynton, Dane Coyne</td>
</tr>
<tr>
<td>C54</td>
<td>Rescue Tee for Differentiating and Managing Shock in Critically Ill Patient</td>
<td>Estuardo J. Saravia Fernandez, Vaibhav Bora</td>
</tr>
<tr>
<td>C55</td>
<td>The Safety of Hemoconcentration during ECMO</td>
<td>Samir Sethi, Rachel Glass, Caroline Jensen, Peter Munoz, Bruno Sambuco, David Yamane</td>
</tr>
<tr>
<td>C56</td>
<td>Procalcitonin - Early Predictor of Survival in Critically Ill Patients with Sepsis</td>
<td>Ahsan K. Siddiqui, Abhishek Verma</td>
</tr>
<tr>
<td>C57</td>
<td>Implementation of an Arterial Waveform-Based IV Fluid Goal-Directed Therapy Protocol in a Cardiac Surgery Intensive Care Unit</td>
<td>Erik J. Stoltenberg, Susan Seatter, David Williams, Larissa Stanberry, Steven M. Bradley</td>
</tr>
<tr>
<td>C58</td>
<td>Coved ST Elevation: A Case of Propofol Infusion Syndrome</td>
<td>Alex Suginaka, Bharathram Vasudevan, Lauren Allan</td>
</tr>
<tr>
<td>C60</td>
<td>Vasopressor Dosing in Septic Shock Clinical Trials: A Systematic Review and Meta-Analysis</td>
<td>Bijan Teja, Nicholas A. Bosch, Allan J. Walkey, Ruxandra Pinto, Hannah M. Wunsch</td>
</tr>
</tbody>
</table>
C61. Low Dose Factor VIIa Yields Big Results  
Hans Tregear, Elizabeth Cotter, He Jianghua, Gao Guangyi, Sharma Akshit, George T. Zorn, Brigid C. Flynn

C62. Low-Cost ECMO Troubleshooting Simulation Improves Provider Confidence and Preparedness in Managing Life-Threatening Circuit Complications  
Matthew Wiepking, Michael Stentz, Kiley Hodge

C63. Assessing Post-Surgical Mortality Risk through Nonlinear Coupling of Intraoperative Heart Rate and Blood Pressure Time Series  
Alexander L. Young, Hau-Tieng Wu, Willem Van Den Boom, Vijay Krishnamoorthy, Karthik Raghunathan, David B. Dunson

C64. Reducing Operating Room Delays: One Institution’s Search for the Holy Grail  
Scott M. Pappada, Christopher H. Nam, Soroush Merchant, Sonya Rygielski, Andrew Casabianca, Sadik Khuder, Thomas J. Papadimos

C65. Economic Evaluations of Sugammadex for Reversal of Neuromuscular Block in Surgical Procedures: A Systematic Review  
Amit D. Raval, Ishita Doshi, Sumesh Kachroo, Lori D. Bash

C66. The Impact of Early Exposure to High-Fidelity Simulation on the Developing Anesthesiologist: A Qualitative Pilot Study  
Dylan Bard, Gavyn Ooi, Michael Esterlis, Elaine Kilmartin, Neeru Rattan

C67. The Ontology of Leadership: A Simulation-Based Introduction  
Annandita Kumar, Philip Boysen

C68. The Impact of a Focused Cardiac Ultrasound Curriculum on Anesthesiology Residents in the Post Anesthesia Care Unit  
Louisa Palmer, Jeff Swanson

C69. Resident Physician Perspective on Women As Leaders  
Karlyndsay Sitterley, Philip Boysen, Joseph Koveleskie

C70. Gender Differences Among Adult Critical Care Program Directors  
Terrie Vasilopoulos, Brenda Fahy, Mohammed Almualim, Peggy White, Rogerio A. Santos, Deborah J. Culley

C71. Resuscitative Supraceliac Aortic Occlusion for Hemorrhagic Shock in a Liver Transplant Recipient  
Reem Almuqati, Madiha Syed

C72. Independent Lung Ventilation as a Rescue Strategy Following Unilateral Lung Transplantation: A Case Report  
Amar M. Bhatt, Victor Davila

C73. Spontaneous Life Threatening Hemorrhage in a Patient with Kippel-Trenaunay Syndrome Requiring Multiple Trips to the Operating Room Managed with Aminocaproic Acid, Activated Factor VII, and Heparin  
Kaitlyn Brennan, Francis X. Whalen, Nathan Peffley, Kathryn E. Howze
C74. Critical Care Management of Culture Negative Endocarditis Due to Bartonella
Christian S. Balabanoff Acosta, Daniela De Lima Corvino, Anmary Fernandez Betances, Rafael Arciniegas Flores, Srikar Jonna, Anna M. Schuerner, Richard A. Zack-Guasp, Ricardo Martinez Ruiz, Miguel Cobas, Alexander C. Fort

C75. Right Ventricular Failure and Acute Respiratory Distress Syndrome after Drowning Managed with Right Atrial to Pulmonary Artery Extracorporeal Membrane Oxygenation
Christian S. Balabanoff Acosta, Rafael Arciniegas Flores, Anna M. Schuerner, Srikar Jonna, Richard A. Zack-Guasp, Ning Lu, Arnaldo Vera-Arroyo, Ricardo Martinez Ruiz, Valerie Hart

C76. Management of a Thrombus Overriding a Patent Foramen Ovale in a Patient with Concomitant Pulmonary Embolism
Christian S. Balabanoff Acosta, John Carey, Richard A. Zack-Guasp, Srikar Jonna, Rafael Arciniegas Flores, Anna M. Schuerner, Arnaldo Vera-Arroyo, Oscar Aljure, Ricardo Martinez Ruiz, Roger Alvarez

C77. The Utility of Tee for Mechanical Circulatory Support and Clinic Decision Making
Dominique Brundidge

C78. Superior Vena Cava Syndrome from Cannula Malposition during Femoro-Femoral Veno-Venous ECMO
Juan C. Diaz Soto, Elvedin Lukovic

C79. Hemorrhagic Shock Secondary to Non-Traumatic Superior Mesenteric Vein Rupture in a Patient with Hepatitis Peliosis
Shara Feld, Tichaendepi Mundangepfupfu

C80. Rapid Detection and Transport by ECMO Team Improved Outcomes of Severe Acute Pancreatitis Sequelae
Mariana Gomez, Natan Hekmatjah, Paul Helland, Cecilia Canales, Vadim Gudzenko, Sumit Singh

C81. A Case of Acute Hypotensive Transfusion Reaction from Bradykinin Release Syndrome: A Possible Association with a Novel Ace Missense Mutation
Andrew Greenwald, Tarif Chowdhury, Joseph Hostyk, Ruth Landau, Peter Yim

C82. Carcinoid Crisis Presenting As Severe Bronchospasm during Anesthetic Induction in a Pregnant Patient
Kyung Ji, Jennifer Macpherson, Tichaendepi Mundangepfupfu

C83. Erector Spinae Block As Rescue Therapy in the ICU to Facilitate Extubation after Cardiac Surgery: A Case Report
Angela M. Johnson, Connor Mcnamara, Basanta Mohapatra

C84. Neuroleptic Malignant Syndrome in Patient with a Saddle Pulmonary Embolus
Jonathan Kim, Genevieve Manahan, Albert Yen

C85. A Frozen Brain and a Broken Heart: A Case of Takotsubo in the Setting of Catatonia
Nicole King, Edward Misulis, Jeremy P. Walco, Megan Jaynes
C86. The Role of Plasma Exchange in the Treatment of West Nile Virus Neuroinvasive Disease
    Angella E. Koncarevic, Alisha Bhatia

C87. Heparin Induced Thrombocytopenia and Thrombosis Following Cardiac Surgery Resulting in Multi Organ System Failure
    Benjamin S. Levin, William Sauer

C88. Where’s the Contrast: Hydrodissection of Brachiocephalic Vein from Power Injection of Intravenous Contrast through a Left Internal Jugular Triple Lumen Catheter
    Daniel Lotz, James A. Scott, Ulises Torres

C89. Secondary Ultrasound Use in a Post-Operative Patient with Hypotension
    Rebecca Martinez, Julia B. Sobol, Albert Yen, Oliver Panzer

C90. Case Series of Ex-Vivo Resections in Patients with Hepatic Tumors with Extension into Inferior Vena Cava and Right Atrium
    Rebecca Martinez, Avanish S. Reddy, Meneka Dave, Taylor Johnston

C91. Assessment of Hemopericardium after Transcatheter Aortic Valve Replacement
    Danielle Lovett-Carter, Maurice F. Joyce

C92. Cardiogenic Shock Requiring Veno-Arterial Extracorporeal Membrane Oxygenation Following Outpatient Cardioversion
    Danielle Lovett-Carter, Maurice F. Joyce

C93. Wrong Place, Right Time: Avalon Catheter Migration and Point of Care Ultrasound
    Keleigh McLaughlin, Tim Tran

C94. Multifactorial Diabetic Ketoacidosis
    Vanessa Moll, Ceressa T. Ward, Amit Prabhakar, Babar Fiza

C95. A Rare Case of Plastic Bronchitis in an Adult Patient: Anesthetic Challenge
    Yangseon Park, Max B. Kelz

C96. Rare Complication of “Denver” Peritoneovenous Shunt, Clinically Reminiscent of Anaphylactoid Syndrome of Pregnancy
    Rishi Patel, Sergio B. Navarrete, Michael Fowler, Ronsard Daniel

C97. Challenges Utilizing VA ECMO for Management of Hantavirus Induced Cardiopulmonary Syndrome
    Thomas Phillips, Michael Wollenberg

C98. Septic Shock, One Lung Ventilation, and Hypoxia with Tachycardia - Esmolol to Help the Compromised Heart
    Michael P. Ries, Micah Long, Jagan Ramamoorthy

C99. Otorhinolaryngologic Surgery in a Child with Duchenne Muscular Dystrophy
    Elizabeth Rossmann Beel, Titilopemi Aina, Monica Chen
C100. Angiotensin-II for Treatment of Severe Refractory Distributive Shock Post Cardiac Bypass
Patrick Savery, Marcela Hanakova

C101. Central Diabetes Insipidus Due to Ketamine Infusion in a Patient on Veno-Venous Extracorporeal Membrane Oxygenation
Juhee Sharma, Christin Kim

C102. Spontaneous Hemopericardium with Fatal Tamponade Physiology in ESRD Patient on Warfarin
Melina Shoni, Gerardo Rodriguez

C103. Concomitant Use of Impella CP and VA-ECMO in Acute Fulminant Myocarditis with Bi-Ventricular Failure
Jacqueline Sohn, Chantal Elamm, Michael Zacharias, Francis T. Lytle

C104. Delayed Diagnosis of Type A Aortic Dissection in a 39-Year-Old Patient Presenting with Back Pain after Sexual Intercourse
Jacqueline Sohn, Basanta Mohapatra

C105. Misplacement of a Right Subclavian Dialysis Catheter into the Spinal Canal in a Patient on Veno-Venous Extracorporeal Membrane Oxygenation: A Case Report
Anna M. Schuerner, Jack Louro, Roman Dudaryk

C106. Acute Biventricular Heart Failure with Intraventricular Thrombus Formation Following Pericardiocentesis in a Patient with Newly-Diagnosed Metastatic Lung Cancer
Diana Tiwari, Adam Mitchell, Abhinav Goyal

C107. Anesthetic Implications for a Patient with Active Tuberculous Vertebrae Osteomyelitis (Pott’s Disease) Undergoing Corpectomy with Posterior Fusion
Kent Vu, Aaron Lim

C108. An Uncommon Cause of Lactic Acidosis in a Renal Transplant Recipient
Judah Weiss, Anoop K Chhina

C109. TEVAR for Pseudoaneurysm Repair in Digeorge Patient with Double Aortic Arch Anatomy
Se Fum Wong, John Tumbull

C110. Hemoconcentration as an Indicator of Intraoperative Superior Mesenteric Vein Stenosis during Pancreatoduodenectomy
Masha Zeltsman, Madina Gerasimov, Judith Aronsohn, Jeffrey Deygoo

C111. Bilateral Lung Transplant in a Patient with Hermansky-Pudlak Syndrome
Albert Yen, Andrew Vargas, Kristine Breyer, Wendy Smith, Lundy Campbell

C112. Serotonin Syndrome in the ICU: Clinical Manifestations and Management in a Mechanically Ventilated Patient after Complicated CABG Surgery
Richard A. Zack-Guasp, Oscar Aljure
C113. Cardiogenic Shock from the “Widow Maker”: A Multidisciplinary Shock Team Intervention
Erica Zanath, Francis T. Lytle

C114. Refractory Thrombocytopenia in Pregnancy-Associated Acute Myeloid Leukemia
Michael Wu, Thanh-Giang Vu, Joyce Chang, Lindsey Huddleston, Anne L Donovan

C115. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults
Thomas Bunning, Heather E. Whitson, Kent Weinhold, Marty G. Woldorff, Eugene Moretti, Deborah Oyeyemi, Mary Cooter, Cliburn Chan, Roberto Cabeza, Jeffrey N. Browndyke, David Murdoch, Michael Devinney, Leslie Shaw, Harvey J. Cohen, Joseph P. Mathew, Miles Berger

C116. Influence of Perioperative Antibiotic Use on Postoperative Cognition
Sarah Cotter, Paul E. Wischmeyer, John Hunting, Rebecca Y. Klinger, Joseph P. Mathew

C117. Validation of an Angiographic Global Cerebral Vasospasm Score in Aneurysmal Subarachnoid Hemorrhage: A Feasibility Study
Kevin W. Hatton, Abhisek Patel, Stephen Grupke, Abdulnasser Alhajeri, Leon Su, Arnold Stromberg, Justin Fraser

C118. Modeling the Risk of Ionizing Radiation Exposure after Aneurysmal Subarachnoid Hemorrhage
Kevin W. Hatton, Greshma Allareddy, Andrew Clark, Emily Slade, Ran Duan, Justin Fraser

C119. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through An α2A Adrenoceptor Mechanism in Mice
Mervyn Maze, Rong N. Li, Kit I. Lai

C120. Phenoxyalkoxypsoralen-1 (PAP-1), a Highly-Selective Kv1.3 Channel Blocker, Prevents Neuroinflammation and Postoperative Cognitive Decline in Vulnerable Mice
Mervyn Maze, Kit I. Lai, Rong N. Li, Sarah Saxena, Yosuke Uchida, Heike N. Wulff

C121. Case Report: The Anesthesia-Induced EEG in a 30-Year Old Cancer Patient Resembles That of an “Old Brain”
Laura A. Santa Cruz Mercado, Gladia C. Hotan, Hiroko Kunitake, Patrick L. Purdon, Emery N. Brown

C122. The Lower Limits of Neonatal Cerebral Autoregulation during Congenital Cardiac Surgery
Eric L. Vu, Brendan L. Smith, Craig G. Rusin, R. B. Easley, Dean Andropoulos, Ken M. Brady

C123. An Earlier Educational Intervention in Residents Improves Knowledge of Non-Opioid Acute Pain Management in the In-Patient Hospital Setting
Harpreet Dhiman, Jennifer Knuth, Melissa Ehlers, Anthony Ocon, Yi Zhou, Henry Nagle, Ravneet Bhullar

C124. Effect of Catechol-O-Methyltransferase (RS4680) Single Nucleotide Polymorphism on Opioid Induced Hyperalgesia in Adults with Chronic Pain
Danqing Hu
C125. Sustaining the Gains: A 6 Year Follow through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes  
Ming Ann Sim, Lian Kah Ti, Sandhya Mujumdar, Sophia Chew, Mohan Kumar Bhuvaneshwari, Sophia Ang  
Young Investigator Award - 1st Runner Up

C126. Post Operative Respiratory Failure Following Intracranial and Spine Surgeries  
Jagan Devarajan, Eric Chanowski, Bryan Lee, Steven Shook, Dhimant Dani, Ajit Krishnaney, Piyush Mathur

C127. Opioid-Free Anesthesia in Bariatrics: Does It Make a Difference?  
Masha Zeltsman, Judith Aronsohn, Madina Gerasimov, Greg Palleschi, Oonagh Dowling

C128. Cognitive Resilience: Predicting a Robust Cognitive Status after Major Non-Cardiac Surgery  
Christopher G. Choukalas, Christopher Tang, Laura Sands, Yueyao Wang, Sanam Tabatabai, Devon Pleasants, Jacqueline Leung

C129. The Association of Primary Anesthesia Type with Postoperative Outcomes Following Neurointerventional Treatment of Acute Ischemic Stroke: A Retrospective Cohort Analysis  
Bryan Cozart, Rodney A. Gabriel

C130. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis  
Dustin R. Long, Jeannie Chan, Chloe Bryson-Cahn, John Lynch

C131. Association of Colloid Choice and Bleeding Following Musculoskeletal Surgery: A Retrospective Cohort Study and Natural Experiment  
Duncan J Mclean, Vijay Krishnamoorthy, Alan Ellis, Mihaela Stefan, Brian Nathanson, Julien Cobert, Peter Lindenauer, M. A. Brookhart, Karthik Raghunathan

C132. Preoperative Gabapentinoids Increase Risk of Postoperative Opioid-Related Respiratory Depression in Adult Patients Undergoing Total Hip and Knee Arthroplasties  
Sean Moore, Tetsu Ohnuma, Karthik Raghunathan, John Whittle, Raquel R. Bartz, Srinivas Pyati, Alan Ellis, William E. Bryan, Marc Pepin, Vijay Krishnamoorthy

Mohammad Rasouli, Alan Ellis, Vijay Krishnamoorthy, Karthik Raghunathan

C134. Association Between Severity of Perioperative Acute Kidney Injury and Progression of Chronic Kidney Disease Following Non-Cardiac Surgery  
Mohammad Rasouli, Vijay Krishnamoorthy, Karthik Raghunathan, Thorir E. Long, Gisli H. Sigurdsson, Martin I. Sigurdsson

C135. Perioperative Recommendations for Improvement in Sepsis Management: A Prism Quality Initiative  
Pritee Tarwade, Bhuvaneswari S. Ram, Heidi Davis, Mary Jarzebowski

C136. Focused Transthoracic Echocardiography and Peri-Operative Cardiac Arrest: Feasibility Study  
Nibras Bughrara, Susan L. Herrick, Krishnaveni Sirigaddi, Kevin Roberts, Aliaksei Pustavoitau
C137. A Pilot Feasibility Trial of Physical and Cognitive Prehabilitation to Improve Outcomes in Surgical Patients
Kimberly Rengel, Nitin Mehdiratta, Susan Vanston, Kristin Swygert, Jim Jackson, Pratik Pandharipande, Christopher G. Hughes

C138. Gabapentinoids on the Day of Colorectal Surgery Are Associated with Adverse Postoperative Respiratory Outcomes

C139. Merging Physics with Anesthesia: The Sota Omoigui Short Needle Technique for Interventional Procedures
Sota Omoigui

C140. Ultrasound Guided Stellate Ganglion Block for the Treatment of Electrical Storm Refractory to Percutaneous Ablation: A Case Report
Estuardo J. Saravia Fernandez, Paramvir Singh

C141. Different Responses of Healthy Humans Subjected to Lower Body Negative Pressure Induced Hypovolemia using Continuous Noninvasive Arterial Pressure Cycle Duration and Heart Rate
Anna-Maria E. Eid, Aymen Alian, Kirk Shelley, Mohamed Elgamal, Mohamed Eid

C142. Hemodynamic Compensation during Selective Fetoscopic Laser Photocoagulation using the Compensatory Reserve Index
David Leopold, Ryan Phillips, Cristina Wood, Nicholas Behrendt, Michael Zaretsky, Henry Galan, Steven Moulton

C143. Background Music Contributes to Error in the Operating Room
Joseph Schlesinger, Kendall J. Burdick, Clayton D. Rothwell

C144. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education
Scott M. Pappada, Mohammad H. Owais, Cristina Alvarado, Jeffrey Schneiderman, Douglas Brunner, Andrew Casabianca, James Hofmann, Thomas J. Papadimos

C145. Variability in Examining Residual Neuromuscular Blockade after the Use of Neuromuscular Blocking Agents: A Systematic Review of Randomized Controlled Trials
Amit D. Raval, Jennifer Uyei, Vamshi Ruthwik Anupindi, Cheryl P. Ferrufino, Andreas Karabis, Diana Arper, Lori D. Bash, Sorin Brull
3:00 pm – 5:00 pm  Agora / Centre-Ville

Journal Symposium
Research Highlights and Future of Publishing: Perspectives of Journal Editors
Moderated by Colleen Koch, MD MS, MBA, FACC, FASA, Johns Hopkins University School of Medicine

Research Highlights: Canadian Journal of Anesthesia
Gregory L. Bryson, MD, MSc, University of Ottawa, The Ottawa Hospital

Research Highlights: British Journal of Anaesthesia
Hugh C. Hemmings, MD, PhD, FRCA, Weill Cornell Medical College

Research Highlights: Anesthesia & Analgesia
Angela Enright, OC, MB, FRCPC, University of British Columbia; Royal Jubilee Hospital

Research Highlights: Anesthesiology
Evan Kharasch, MD, PhD, Duke University School of Medicine

Plan S and the Future of Biomedical Journals
Gregory L. Bryson, MD, MSc; Angela Enright, OC, MB, FRCPC; Hugh C. Hemmings, MD, PhD, FRCA & Evan Kharasch, MD, PhD

5:15 pm – 6:45 pm  Agora / Centre-Ville

Panel
Peri-Operative Myocardial Injury and Infarction: Pathophysiology, Prognosis and Treatment
Moderated by W. Scott Beattie, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

Pathophysiology of Perioperative Myocardial Injury and Infarction
Giora Landesberg, MD, DSc, MBA, Hadassah Women’s Organization, Hadassah - Hebrew University Medical Center

Should We Measure Cardiac Biomarkers before and after Surgery?
Peter Nagele, MD, MSc, University of Chicago Medicine

Treatment Options for Myocardial Injury or Infarction after Noncardiac Surgery
Duminda Nalaka Wijeysundera, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

5:30 pm – 6:30 pm  Square Victoria

Scholars’ Program Mentoring and Networking Reception
Meet and network with the leaders of the anesthesiology field – and Scholars’ Program participants will be paired with mentors.
This reception is part of the Scholars’ Program, and a ticketed event, visit registration for details.

7:00 pm – 8:30 pm

Taste of Montreal Dine-Around
If you haven’t already, be sure to pre-register for this intimate dining experience at registration. Space is limited; dinner costs are the responsibility of each attendee.
IARS POSTER SESSION D: OPEN VIEWING

6:45 am – 7:45 am Parc Mont-Royal
Continental Breakfast

6:45 am – 7:45 am Rue Crescent
Preparing for Retirement Continental Breakfast*

6:45 am – 7:45 am Square Victoria
IARS First-Time Attendee Orientation Continental Breakfast*

8:00 am – 9:30 am Agora / Centre-Ville
Opening Session and T.H. Seldon Memorial Lecture: Health Research Funding in the 21st Century: Not for the Faint of Heart

10:00 am – 10:45 am Av. Van-Horne
RCL: The ASRA Regional and Pain Anticoagulation Guidelines

10:00 am – 11:00 am Vortex
PBLD: Multiple Challenges during Trans-Catheter Pulmonary Valve Implantation for Severe Stenosis and Regurgitation of an RV to PA Conduit*

10:00 am – 11:00 am Ping
PBLD: Let Me Outta Here! Can There Be AMA Discharge from PACU?*

10:00 am – 11:30 am Av. Laurier
Panel: Nudging Physicians to Change Behavior: The Theory, Conduct, and Critical Assessment of Nudge-Type Interventions

10:00 am – 11:30 am Av. Duluth
Panel: Information Technology, Decision Support, Machine Learning, and Artificial Intelligence: How They Will Transform the Practice of Anesthesiology

10:00 am – 12:00 pm Agora / Centre-Ville

11:30 am – 1:00 pm Av. Laurier
Panel: Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving

11:30 am – 1:00 pm Av. Duluth
WFSA and IARS Panel: Controversies in Global Health

11:30 am – 1:00 pm Av. Van-Horne
SOCCA Panel: Towards Precision Medicine Intensive Care Unit

12:15 pm – 1:00 pm Agora / Centre-Ville
RCL: The Development, Use, and Limitations of Standards, Guidelines and Best Practices

12:00 pm – 1:00 pm Vortex
PBLD: Tonsillectomy in Obese Children with Down Syndrome: Not Just Another T&A!*  

12:00 pm – 1:00 pm Ping
PBLD: Random Drug Testing in Anesthesia: Prevention and Protection or Invasive and Generation of a Slippery Slope?*

*Ticketed event, visit registration for details
SATURDAY, MAY 18 AT-A-GLANCE: IARS

1:00 pm – 2:30 pm
Place du Canada / Square Dorchester
IARS Poster Session D – Presenters in Attendance

1:00 pm – 2:30 pm
Lunch on Your Own

2:30 pm – 3:15 pm
Av. Van-Horne
RCL: Pain Outcomes, Patient Registries and Learning Health Systems: Delivery of Best Pain Care at Lower Cost

2:30 pm – 3:30 pm
Vortex
SNACC PBLD: Anesthesia for Stroke: Challenges and Opportunities

2:30 pm – 4:00 pm
Av. Laurier
ISPCOP Panel: Fables, Facts and Best Practice Updates: The Patient with Obesity

2:30 pm – 4:00 pm
Agora / Centre-Ville
SOAP Panel: Attaining the Opioid-Free Cesarean Delivery

2:30 pm – 4:00 pm
Av. Duluth
SAMBA Innovative Session: Wait, You Can’t Do That: Or Can You? Controversies in Ambulatory Anesthesia

2:30 pm – 5:30 pm
Rue Saint-Denis
Workshop: Reflections on the Balancing Act between Work and Life*

4:00 pm – 4:30 pm
Break

4:30 pm – 5:15 pm
Av. Van-Horne
SOCCA RCL: Reducing Variation in Red Blood Cell Transfusions: Are We Making Progress?

4:30 pm – 5:30 pm
Vortex
PBLD: Perioperative Pain Management in Patients on Buprenorphine*

4:30 pm – 6:00 pm
Av. Laurier
eSAS Panel: Getting Beyond the Anesthesiology Department: Broad Impact through Broad Thinking

4:30 pm – 6:30 pm
Agora / Centre-Ville
International Science Symposium: Dementia: Let’s Stop Losing Our Minds

4:30 pm – 6:30 pm
Av. Duluth
Innovative Session: A Walking History of Medicine in Montreal: Osler, Penfield and Bethune*

5:30 pm – 6:15 pm
Av. Van-Horne
SOCCA RCL: What Is the Magic Number? Blood Pressure Thresholds in the Operating Room, ICU and Beyond

6:15 pm – 8:00 pm
Place du Canada / Square Dorchester
Alignment Reception

*Ticketed event, visit registration for details
WELCOME TO ALIGNED MEETING DAY!

Every IARS, AUA and SOCCA attendee is welcome at every session today. If a session is a ticketed event, please visit the Registration Desk to find out if space is still available.

6:45 am – 7:45 am  Parc Mont-Royal
Continental Breakfast
Come meet your fellow anesthesiologists over a cup of coffee – you never know who you’ll run into!

6:45 am – 7:45 am  Rue Crescent
Planning for Retirement Continental Breakfast
It’s never too early (or late) to start planning for retirement. Come talk to others about steps you can take to make sure you’re ready!
Ticketed event; visit the Registration Desk for details.

8:00 am – 9:30 am  Agora / Centre-Ville
OPENING SESSION AND T.H. SEDDON MEMORIAL LECTURE
Health Research Funding in the 21st Century: Not for the Faint of Heart

Welcome Comments
Colleen Koch, MD, MS, MBA, FACC, The Johns Hopkins University School of Medicine, IARS Board of Trustees Chair

Introduction
Davy Cheng, MD, MSc, FRCP, FCAHS, CCPE, IARS Board of Trustees; World Federation of Societies of Anaesthesiologists Chair, Scientific Affairs Committee

Health Research Funding in the 21st Century: Not for the Faint of Heart
Michael J. Strong, MD, FRCP(C), FANN, FCAHS
Western University; President, Canadian Institutes of Health Research

8:00 am – 5:00 pm  Place du Canada / Square Dorchester
IARS Poster Session D: Open Viewing
For session details, see the IARS Posters tab.

9:30 am – 10:00 am
Break

10:00 am – 10:45 am  Av. Van-Horne
Review Course Lecture
The ASRA Regional and Pain Anticoagulation Guidelines
Host: Aryeh Shander, MD, FCCM, FCCP, FASA, Englewood Hospital and Medical Center
Speaker: Honorio Benzon, MD, Northwestern University Feinberg School of Medicine
<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 am – 11:00 am</td>
<td>Vortex</td>
<td>Problem-Based Learning Discussion&lt;br&gt;Multiple Challenges during Trans-Catheter&lt;br&gt;Pulmonary Valve Implantation for Severe&lt;br&gt;Stenosis and Regurgitation of an RV to PA Conduit&lt;br&gt;Sheela Pai Cole, MD, Stanford University School of Medicine &amp; Mounir Banoub, MD, MBA, CPE, FAAPL, FASA, Augusta University Medical Center&lt;br&gt;Ticketed event; visit the Registration Desk for details.</td>
</tr>
<tr>
<td>10:00 am – 11:00 am</td>
<td>Ping</td>
<td>Problem-Based Learning Discussion&lt;br&gt;Let Me Outta Here! Can There Be AMA Discharge from PACU?&lt;br&gt;Linda Liu, MD, University of California, San Francisco School of Medicine &amp; Karl Poterack, MD, Mayo Clinic&lt;br&gt;Ticketed event; visit the Registration Desk for details.</td>
</tr>
<tr>
<td>10:00 am – 11:30 am</td>
<td>Av. Laurier</td>
<td>Panel&lt;br&gt;Nudging Physicians to Change Behavior: The Theory, Conduct, and Critical Assessment of Nudge-Type Interventions&lt;br&gt;Moderated by Craig S. Jabaley, MD, Emory University Hospital&lt;br&gt;Behavioral Change in Perioperative Quality Improvement: Lessons from the Business World&lt;br&gt;Grant Lynde, MD, MBA, Emory University Hospital&lt;br&gt;Applications of Nudge Theory in the Anesthesiology and Perioperative Domains&lt;br&gt;Craig S. Jabaley, MD, Emory University School of Medicine&lt;br&gt;Implementation and Assessment of Nudge-Type and Other Quality Improvement Interventions&lt;br&gt;Vikas N. O’Reilly-Shah, MD, PhD, Emory University School of Medicine</td>
</tr>
<tr>
<td>10:00 am – 11:30 am</td>
<td>Av. Duluth</td>
<td>Panel&lt;br&gt;Information Technology, Decision Support, Machine Learning, and Artificial Intelligence: How They Will Transform the Practice of Anesthesiology&lt;br&gt;Moderated by Ronald Pearl, MD, PhD, Stanford University School of Medicine&lt;br&gt;Use of Information Technology and Decision Support in Anesthesiology&lt;br&gt;Warren S. Sandberg, MD, PhD, Vanderbilt University School of Medicine&lt;br&gt;Closed-Loop Anesthesia Administration&lt;br&gt;Thomas Hemmerling, MD, MSc, DEAA, McGill University&lt;br&gt;Machine Learning for Improving Management of Acute and Chronic Pain&lt;br&gt;Timothy T. Houle, PhD, Massachusetts General Hospital&lt;br&gt;The Future of Artificial Intelligence and Its Impact on Anesthesiology&lt;br&gt;Steven L. Shafer, MD, Stanford University School of Medicine</td>
</tr>
<tr>
<td>10:00 am – 12:00 pm</td>
<td>Agora / Centre-Ville</td>
<td>AUA Symposium&lt;br&gt;Anesthesia and Consciousness: How Investigations of the Anesthetized State Shape Current Concepts of Consciousness&lt;br&gt;Moderated by Ines P. Koerner, MD, PhD, Oregon Health &amp; Science University, AUA Education Chair&lt;br&gt;The Controversial Correlates of Consciousness&lt;br&gt;George A. Mashour, MD, PhD, University of Michigan Medicine&lt;br&gt;Consciousness, Sensory Disconnection and Anesthesia&lt;br&gt;Robert Sanders, MBBS, PhD, FRCA, University of Wisconsin School of Medicine and Public Health</td>
</tr>
</tbody>
</table>
Subcortical Arousal Systems and Emergence from General Anesthesia
Ken Solt, MD, Harvard Medical School; Massachusetts General Hospital

Using Anesthesia to Probe Disorders of Consciousness
Stefanie Blain-Moraes, PhD, McGill University

11:30 am – 1:00 pm  Av. Laurier
Panel
Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving
Moderated by Santhanam Suresh, MD, Ann & Robert H. Lurie Children’s Hospital of Chicago

Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving
Santhanam Suresh, MD, Ann & Robert H. Lurie Children’s Hospital of Chicago

Creating a Culture of Wellness
To be announced

Improving Practice Efficiency
Jeffery S. Vender, MD, The University of Chicago Medicine

Becoming a More Resilient Physician
Gregory B. Hammer, MD, Stanford University School of Medicine

11:30 pm – 1:00 pm  Av. Duluth
WFSA and IARS Panel
Controversies in Global Health
Moderated by Davy Cheng, MD, MSc, FRCPS, FCAHS, CCPE; WFSA Chair, Scientific Affairs Committee; IARS Board of Trustees

Surgical Safety Checklist: Impact on Postoperative Outcomes
Janet Martin, MSc (HTA&M), PharmD, Western University; MEDICI Centre

Perioperative FiO2 on Postoperative Morbidity and Wound Infection
Janet Martin, MSc (HTA&M), PharmD, Western University; MEDICI Centre

11:30 pm – 1:00 pm  Av. Van-Horne
SOCCA Panel
Towards Precision Medicine Intensive Care Unit
Moderated by Robert D. Stevens, MD, FCCM, Johns Hopkins University School Of Medicine

Clinical Informatics for Predictive and Prognostic Modeling in the ICU
Vitaly Herasevich, MD, PhD, Mayo Clinic

Omics Applications in Neurotrauma Research: From Pathobiology to Treatment
Alan I. Faden, MD, University of Maryland School of Medicine

Machine Learning in Intensive Care Medicine
Robert D. Stevens, MD, FCCM, Johns Hopkins School of Medicine

The NIH All of Us Precision Health Initiative
Sachin Kheterpal, MD, MBA, University of Michigan Medicine

12:15 pm – 1:00 pm  Agora / Centre-Ville
Review Course Lecture
The Development, Use, and Limitations of Standards, Guidelines and Best Practices
Host: Roman Schumann, MD, Tufts Medical Center
Speaker: Karl Poterack, MD, Mayo Clinic College of Medicine and Science
12:00 pm – 1:00 pm  
**Problem-Based Learning Discussion**  
**Tonsillectomy in Obese Children with Down Syndrome: Not Just Another T&A!**  
Kumar G. Belani, MBBS, MS,  
University of Minnesota; Wilson T. Chimbira,  
MD, FRCA, University of Michigan Medicine &  
Olubukola O. Nafiu, MD, FRCA, MS, University of  
Michigan Medicine  
Ticketed event; visit the Registration Desk for details.

12:00 pm – 1:00 pm  
**Problem-Based Learning Discussion**  
**Random Drug Testing in Anesthesia: Prevention and Protection or Invasive and Generation of a Slippery Slope?**  
Keith Baker, MD, PhD, Massachusetts General Hospital; Richard C. Prielipp, MD, University of Minnesota & Mark Rice, MD, Vanderbilt University School of Medicine  
Ticketed event; visit the Registration Desk for details.

1:00 pm – 2:30 pm  
**Place du Canada / Square Dorchester**  
**IARS Poster Session D**  
For session details, see the IARS Posters tab.

1:30 pm – 2:30 pm  
**Lunch On Your Own**  
Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.

2:30 pm – 3:15 pm  
**Av. Van-Horne**  
**Review Course Lecture**  
**Pain Outcomes, Patient Registries and Learning Health Systems: Delivery of Best Pain Care at Lower Cost**  
Host: Danielle Ludwin, MD, Columbia University Medical Center  
Speaker: Sean Mackey, MD, PhD, Stanford University School of Medicine

2:30 pm – 3:30 pm  
**Vortex**  
**SNACC Problem-Based Learning Discussion**  
**Anesthesia for Stroke: Challenges and Opportunities**  
Lauren Berkow, MD, University of Florida College of Medicine & Shobana Rajan, MD, Cleveland Clinic  
Ticketed event; visit the Registration Desk for details.

2:30 pm – 4:00 pm  
**Av. Laurier**  
**ISPCOP Panel**  
**Fables, Facts and Best Practice Updates: The Patient with Obesity**  
Moderated by Roman Schumann, MD, Tufts University School of Medicine  
**NPO Assessment in the Obese Patient: When Ultrasound Can Help and How to Do It: Any Evidence?**  
Peter B.C. Van de Putte, MD, AZ Monica Campus Deurne  
**Non-Invasive Hemodynamic Monitoring in Obese Patients: A Challenge, and What Do We Know?**  
Roman Schumann, MD, Tufts Medical Center  
**Antibiotics, Heparins and Vasopressors: Evidence-Based Optimized Dosing Guidance**  
Luc De Baerdemaeker, MD, PhD, Ghent University Hospital; UZ Gent Hospital  
**Intubation and Extubation for the Obese Patient: Myths and Safe Approaches**  
Tiffany Moon, MD, University of Texas Southwestern
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 2:30 pm – 4:00 pm | Agora / Centre-Ville | **SOAP Panel**  
**Attaining the Opioid-Free Cesarean Delivery**  
Moderated by Brendan Carvalho, MBChB, FRCA, Stanford University School of Medicine  
**Opioid Use after Cesarean Delivery**  
Brendan Carvalho, MBChB, FRCA, Stanford University School of Medicine  
**In-Hospital Opioid-Sparing Multimodal Analgesic Techniques**  
Pervez Sultan, MD, MB, ChB, FRCA, University College London Hospital  
**Changing Opioid Prescription Patterns after Cesarean Delivery**  
Brian Bateman, MD, MSc, Brigham and Women’s Hospital |
| 4:00 pm – 4:30 pm | Av. Van-Horne          | **SOCCA Review Course Lecture**  
Reducing Variation in Red Blood Cell Transfusions: Are We Making Progress?  
Host: Angus Christie, MD, Spectrum Healthcare Partners  
Speaker: Stephen D. Surgenor, MD, Dartmouth Hitchcock Health |
| 2:30 pm – 4:00 pm | Av. Duluth             | **SAMBA Innovative Session**  
**Wait, You Can’t Do That: Or Can You?**  
Controversies in Ambulatory Anesthesia  
Moderated by Niraja Rajan, MD, Penn State Milton S. Hershey Medical Center  
Girish P. Joshi, MB BS, MD, FFARCSI, University of Texas Southwestern Medical Center  
Richard D. Urman, MD, MBA, CPE, FASA, Brigham and Women’s Hospital; Harvard Medical School |
| 4:30 pm – 5:30 pm | Vortex                 | **Problem-Based Learning Discussion**  
Perioperative Pain Management in Patients on Buprenorphine  
Daniel Burkhardt, MD, University of California, San Francisco School of Medicine; Sakura Kinjo, MD, University of California, San Francisco School of Medicine & Ruth Landau, MD, Columbia University Medical Center  
Ticketed event; visit the Registration Desk for details. |
| 2:30 pm – 5:30 pm | Rue Saint-Denis        | **Workshop**  
**Reflections on the Balancing Act Between Work and Life**  
Guelay Bilen-Rosas, MD, University of Wisconsin School of Medicine and Public Health; James Fehr, MD, Washington University School of Medicine; Norah R. Janosy, MD, University of Colorado Denver School of Medicine; Kathrine Keech, MD, University of Iowa; Martha Wynn, MD, University of Wisconsin School of Medicine and Public Health & Myron Yaster, MD, University of Colorado Denver School of Medicine  
Ticketed event; visit the Registration Desk for details. |
| 4:30 pm – 6:00 pm | Av. Laurier            | **eSAS Panel**  
**Getting Beyond the Anesthesiology Department: Broad Impact through Broad Thinking**  
Moderated by Michael R. Mathis, MD, University of Michigan Medicine  
**Collaboration with Surgeons:**  
Opportunities for Perioperative Data to Enhance Surgical Registries  
Michael R. Mathis, MD, University of Michigan Medicine |
Collaboration with Primary Care: Opportunities to Improve Long-Term Cardiovascular Disease Risk
Robert B. Schonberger, MD, MHS, Yale School of Medicine

Collaboration with Pharmacists: Opportunities to Refine Medication Selection, Dosing and Delivery
Shamsuddin Akhtar, MD, MBBS, Yale School of Medicine

INTERNATIONAL SCIENCE SYMPOSIUM
Dementia: Let’s Stop Losing Our Minds
Moderated by Christian P. Werner, MD, Medical Center of Johannes Gutenberg-Universität, IARS Board of Trustees

Dementia Update: What’s New in the Field
Sandra E. Black, OC, OOnt, MD, FRCP(C), FRSC, FAAN, FAHA, University of Toronto

Critical Illness: What Matters is the Mind
E. Wes Ely, MD, PhD, Vanderbilt University School of Medicine

Mechanisms of Mind Loss: The Clock is Ticking
Erik S. Musiek, MD, PhD, Washington University School of Medicine

Innovative Session
A Walking History of Medicine in Montreal: Osler, Penfield and Bethune
Michael Aaron Chyfetz, MD, MSc, Montefiore Medical Center; Albert Einstein College of Medicine & Daniel Chartrand, MD, PhD, FRCPC, Montreal Neurological Hospital
Ticketed event; visit the Registration Desk for details.

SOCCA Review Course Lecture
What Is the Magic Number? Blood Pressure Thresholds in the Operating Room, ICU and Beyond
Host: Peter Von Homeyer, MD, FASE, University of Washington Medicine
Speaker: Ashish K. Khanna, MD, FCCP, FCCM, Wake Forest University School of Medicine

Alignment Reception
Join us in the Exhibit Hall to raise a glass with friends you know — and the ones you haven’t met yet!
8:00 am – 5:00 pm

IARS POSTER SESSION E: OPEN VIEWING

6:00 am – 7:00 am  Parc Mont-Royal
Continental Breakfast

6:00 am – 7:00 am  Rue Crescent
International Connections Continental Breakfast*

6:00 am – 7:00 am  Square Victoria
Women in Anesthesia Continental Breakfast*

7:00 am – 9:00 am  Agora / Centre-Ville
Kosaka Best of Meeting Abstract Awards Oral and Poster Presentations

9:00 am – 9:30 am
Break

9:30 am – 10:30 am  Vortex
SASM PBLD: Perioperative Care of the Patient with OSA*

9:30 am – 10:30 am  Ping
SAMBA PBLD: Ambulatory Anesthesia: Common Problems during Pediatric Care*

9:30 am – 11:00 am  Av. Viger
Panel: The Enterprise Electronic Medical Record Data Access Problem: How to Build a Perioperative Data Warehouse for Quality Improvement, Reporting, and Research

9:30 am – 11:00 am  Av. Duluth
SNACC Panel: Opioid-Free Anesthesia: Biologic Basis and Potential Applications in Neurosurgical Anesthesiology

9:30 am – 11:00 am  Av. Laurier
APSF Panel: Can We Eliminate Medical Errors in the Operating Room?

9:30 am – 11:30 am  Av. Laurier
SYM: The Evolution of Onco-Anaesthesia: Changing How We Care for the Cancer Surgery Patient

9:30 am – 12:30 pm  Rue Notre-Dame
Workshop: Advanced Perioperative Ultrasound: Ultrasound Findings in Life-Threatening Perioperative Emergencies*

11:00 am – 12:30 pm  Av. Duluth
Panel: Understanding Observational Studies: Updates from Perioperative Epidemiologists

11:00 am – 12:30 pm  Av. Viger
SOCCA Panel: Critical Care Anesthesiologist & Acute Care Continuum of Complex Stroke Patient

11:00 am – 12:30 pm  Agora / Centre-Ville
SmartTots Panel: Anesthesia and Neurotoxicity: A Conundrum for Clinicians

11:30 am – 12:15 pm  Av. Van-Horne
RCL: Airway Management of the Obstetric Patient: What’s New?

*Ticketed event, visit registration for details
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 am – 12:30 pm</td>
<td>Vortex</td>
<td>PBLD: Pulmonary Alveolar Hemorrhage in a Patient with Short-Term Ventricular Assist Device Awaiting Heart Transplantation*</td>
</tr>
<tr>
<td>11:30 am – 12:30 pm</td>
<td>Ping</td>
<td>PBLD: Updates to Perioperative Management of the Left Ventricular Assist Device Patient Presenting for a Non-Cardiac Procedure*</td>
</tr>
<tr>
<td>1:00 pm – 2:30 pm</td>
<td></td>
<td>Lunch on Your Own</td>
</tr>
<tr>
<td>1:00 pm – 2:30 pm</td>
<td>Place du Canada / Square Dorchester</td>
<td>IARS Poster Session E – Presenters in Attendance</td>
</tr>
<tr>
<td>2:00 pm – 2:45 pm</td>
<td>Av. Duluth</td>
<td>RCL: Cardiovascular Outcomes in Transcatheter Aortic Valve Replacement: Implications for Anesthesiology</td>
</tr>
<tr>
<td>2:00 pm – 3:00 pm</td>
<td>Ping</td>
<td>PBLD: Perioperative Management of the Patient with Type 2 Diabetes: From Guidelines to Individualized Patient Care*</td>
</tr>
<tr>
<td>2:00 pm – 3:00 pm</td>
<td>Vortex</td>
<td>PBLD: Heroin for Labor Pain: What Are You Smoking or How to Get Controversial Research Through the IRB*</td>
</tr>
<tr>
<td>2:00 pm – 3:30 pm</td>
<td>Av. Laurier</td>
<td>STA Panel: Beyond the Hype: Emerging Technologies and Their Potential to Improve Anesthesia Education, Research, and Care Delivery</td>
</tr>
<tr>
<td>2:00 pm – 3:30 pm</td>
<td>Agora / Centre-Ville</td>
<td>SOCCA Panel: Sepsis-induced Coagulopathy: Mechanisms and Management</td>
</tr>
<tr>
<td>2:00 pm – 5:00 pm</td>
<td>Rue Saint-Denis</td>
<td>Workshop: Bootcamp for Brief Cognitive Assessment Skills in the Perioperative Setting*</td>
</tr>
<tr>
<td>2:00 pm – 6:00 pm</td>
<td>Rue Mansfield</td>
<td>Scholars’ Program: Leadership Workshop: Self-Awareness and Self-Management*</td>
</tr>
<tr>
<td>2:00 pm – 6:00 pm</td>
<td>Av. Van Horne</td>
<td>AUA, eSAS, IARS, FAER, MPOG, PACT &amp; SOCCA: Initiative for Multicenter Pragmatic Anesthesiology Clinical Trials’ (IMPACT)</td>
</tr>
<tr>
<td>3:30 pm – 4:00 pm</td>
<td></td>
<td>Break</td>
</tr>
<tr>
<td>4:00 pm – 5:00 pm</td>
<td>Vortex</td>
<td>SNACC PBLD: Perioperative Management of the Patient with Closed Head Injury for Non-Neurologic Procedure*</td>
</tr>
<tr>
<td>4:00 pm – 5:00 pm</td>
<td>Ping</td>
<td>PBLD: Perioperative Atrial Fibrillation: Challenges in Prevention and Management*</td>
</tr>
<tr>
<td>4:00 pm – 5:00 pm</td>
<td>Av. Duluth</td>
<td>Innovative Session: Anesthetic Management of Intraoperative Neurophysiologic Monitoring (IONM) Signal Changes: A Case-Based, Simulation-Driven Learning Experience</td>
</tr>
</tbody>
</table>

*Ticketed event, visit registration for details
4:00 pm – 5:30 pm  Av. Viger
Panel: Israel Society of Anesthesiologists &
Israel Association of Obstetric Anesthesia
Obstetric Anesthesia in Israel: Modern
Obstetric Anesthesia Challenges in Traditional
Populations

4:00 pm – 5:30 pm  Agora / Centre-Ville
Panel: Encouraging the Next Generation of
Women: Growing Junior Faculty as Leaders

4:00 pm – 6:00 pm  Av. Laurier
SYM: Cell Death & Survival: Beyond
Oxygenation

6:00 pm – 8:00 pm  Square Victoria
ISPCOP and McGill Anesthesia Networking
Session

6:30 pm – 8:00 pm
Taste of Montreal Dine-Around*

*Ticketed event, visit registration for details
### Continental Breakfast

**Parc Mont-Royal**

Come meet your fellow anesthesiologists over a cup of coffee – you never know who you’ll run into!

### International Connections Continental Breakfast

**Rue Crescent**

What’s better than starting the day with a cup of coffee (or tea!) and fellow anesthesiologists from around the world? *Ticketed event; visit the Registration Desk for details.*

### Women in Anesthesia Continental Breakfast

**Square Victoria**

Sorry fellas, this one is ladies only please!

*Moderated by Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital*

*Ticketed event; visit the Registration Desk for details.*

### KOSAKA BEST OF MEETING ABSTRACT AWARDS ORAL AND POSTER PRESENTATIONS

7:00 am – 9:00 am

*Open Poster Viewing and Discussion*

7:30 am – 7:35 am

*Introduction*

7:35 am – 8:00 am

*Top Finalist: Basic Science Research Oral Presentations*

8:00 am – 8:25 am

*Top Finalist: Clinical Research Oral Presentations*

8:25 am – 8:50 am

*Top Finalist: Scholars Oral Presentations*

8:50 am – 9:15 am

*Top Late-Breaking Abstract Oral Presentations*

9:15 am – 9:25 am

*Judges Deliberate*

9:25 am – 9:30 am

*Winners Announced and Closing Statement*

### TOP FINALISTS: BASIC SCIENCE RESEARCH

**K1. Hyperoxic Resuscitation following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation**

*Gary Fiskum, PhD, University of Maryland School of Medicine*

**K2. Therapeutic Effects of Hyaluronic Acid in *E.coli* Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs**

*Jae-woo Lee, MD, University of California San Francisco*
K3. GFAP Expression in the Visual Cortex is Increased in Juvenile Non-Human Primates That Were Exposed to Anesthesia during Infancy
Viola Neudecker, MD, Columbia University Medical Center

K.04. Opioid Therapy Algorithm for Chronic Non-Cancer Pain Based on APS, AAPM, CDC, ASA and ASRA Guidelines and Position Statements
Jason D. Lefkof, DO, University of Miami Miller School of Medicine presenting on behalf of Ethan L. Chambers, MD, University of Miami / Jackson Memorial Hospital

TOP FINALISTS: CLINICAL RESEARCH

K5. Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability
Domagoj Mladinov, MD, PhD, University of Alabama at Birmingham (UAB)

Ming Ann Sim, MBBS, National University Hospital Singapore

TOP FINALISTS: SCHOLARS

K7. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer’s Disease Pathology
Jacob Basak, MD, PhD, Washington University School of Medicine

K8. Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-Specific Patterns of Intraoperative Hypotension Exposure
Michael P. Schnetz, MD, PhD, University of Pittsburgh

K9. Therapeutic Effects of High Molecular Weight Hyaluronic Acid in Ex Vivo Perfused Marginal Human Lungs Injured with Pseudomonas Aeruginosa
Shinji Sugita, MD, University of California, San Francisco

FINALISTS: BASIC SCIENCE RESEARCH

K10. Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-Based Nano-emulsion: Safety, Efficacy and Toxicity in Dogs
Behrouz Ashrafi, MD, University of Miami

K11. Milrinone Decreases Late Apoptosis in H9c2 Cardiomyocytes through a Non-Dependent ATP Pathway
Jose V. Montoya-Gacharna, MD, NYU Langone Health

K12. A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia
Dusan Hanidziar, Md Phd, Massachusetts General Hospital

K13. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through an α2A Adrenoceptor Mechanism in Mice
Mervyn Maze, M.B., Ch.B., University of California San Francisco

K14. The Impact of Nutraceutical Pre-Habilitation and Postoperative Treatment with Ecoisapentanoic Acid (EPA) and Acetylsalicylic Acid (Aspirin) on a Novel Animal Model of Recovery after Surgery
Juan Cata, MD, MD Anderson Cancer Center
K15. Deep Immune Profile of Preoperative Glucocorticoid Administration in Patients Undergoing Surgery
Amy Tsai, BA, Stanford University School of Medicine presenting on behalf of Brice Gaudilliere, MD, PhD, Stanford University School of Medicine

K16. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education
Scott M. Pappada, PhD, The University of Toledo College of Medicine and Life Sciences

FINALISTS: CLINICAL RESEARCH
K17. Contingency Planning to Overcome Critical Shortages of Hyperbaric Bupivacaine for Obstetric Anesthesia Care
Laurence Ring, MD, Columbia University Medical Center

K18. Patient-Reported In-Hospital Complications and Self-Reported Cognitive Function 1-Year after Surgery
Thomas G. Kannampallil, PhD, Washington University School of Medicine

K19. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis
Dustin R. Long, MD, University of Washington

K20. Effects of Acetaminophen, NSAIDS, Gabapentinoids and Their Combinations on the Day of Surgery in Total Hip and Knee Arthroplasties
Tetsu Ohnuma, MD, MPH, Duke University

K21. Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study
Seshadri Mudumbai, MD, Stanford University

K22. The Effect of Low Dose Intra-Operative Ketamine on Closed-Loop Controlled General Anesthesia: A Randomized Controlled Equivalence Trial
Matthias Görges, PhD, The University of British Columbia

K23. Poiseuille’s Law Demonstration to Compare Flow Rates with Commonly Used Vascular Catheters and IV Tubing Accessories
Christina R. Miller, MD, Johns Hopkins Hospital

FINALISTS: SCHOLARS
K24. Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis is Influenced by Disease Severity and Tidal Volume
Khoa Nguyen, BS, University of Central Florida

K25. Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight
Stephen Ellison, MD, PhD, Duke University Medical Center

K26. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults
Thomas Bunning, BS, Duke University Medical Center
K27. Imaging Cortical Activity During General Anesthesia: Insights into Cortical Pain Processing in Mice
Jarret Weinrich, PhD, University of California San Francisco

K28. The Left Angular Gyrus and Dorsal Anterior Cingulate Cortex: Key Regions for Pre-Post Operative Functional Resting State Decline?
Cheshire Hardcastle, MSc, University of Florida

K29. Risk Factors for Acute Kidney Injury after Primary Total Correction of Coarctation of the Aorta(COA) and Transposition of the Great Arteries(TGA) in Infants: A Retrospective Cohort study
Soo Young Kim, MD, Asan Medical Center

K30. Preoperative Gabapentinoids Increase Risk of Postoperative Opioid-Related Respiratory Depression in Adult Patients Undergoing Total Hip and Knee Arthroplasties
Sean Moore, MD, MBA, Duke University

TOP LATE-BREAKING ABSTRACTS
K31. Behavioral Sedation EEG Changes Induced by Dexmedetomidine Attenuated but not Eliminated in A Novel Adra2a Knockout Mouse
Benjamin A. Harrison, BA Candidate, University of Pennsylvania

K32. Restrictive Versus Liberal Transfusion Strategies in Cardiac Surgery: A Systematic Review and Meta-Analysis with Trial Sequential Analysis
Hessam H. Kashani, MD, MSc, University of Manitoba

K33. What Counts? Comparison of Manual Palpation, Mechanomyography, Acceleromyography and Electromyography for Twitch Assessment
Kelly Michaelsen, MD, PhD, University of Washington

8:00 am – 5:00 pm
Place du Canada / Square Dorchester

IARS Poster Session E: Open Viewing
For session details, see see IARS Posters tab.

9:00 am – 9:30 am
Break

9:30 am – 10:30 am
Vortex

SASM Problem-Based Learning Discussion
Perioperative Care of the Patient with OSA*
Crispiana Cozowicz, MD, Hospital for Special Surgery & Dawn Dillman, MD, Oregon Health and Science University
Ticketed event; visit the Registration Desk for details.

9:30 am – 10:30 am
Ping

SAMBA Problem-Based Learning Discussion
Ambulatory Anesthesia: Common Problems during Pediatric Care
Kumar G. Belani, MD, President-Elect, SAMBA; University of Minnesota Masonic Children’s Hospital & James Fehr, MD, Washington University School of Medicine
Ticketed event; visit the Registration Desk for details.
9:30 am – 11:00 am  
Av. Viger

Panel
The Enterprise Electronic Medical Record
Data Access Problem: How to Build a Perioperative Data Warehouse for Quality Improvement, Reporting, and Research
Moderated by Richard H. Epstein, MD, Anesthesia Information Systems

Where’s Waldo? Deconstructing a Complex EMR to Build a Perioperative Data Warehouse
Ira Hofer, MD, University of California, Los Angeles David Geffen School of Medicine

Holding on to the Baby When IT Throws Out the Bathwater: Maintaining Your Existing Data Warehouse
Jonathan Wanderer, MD, Vanderbilt University School of Medicine

Making Lemonade When All You Get Are Lemons: Building a Data Warehouse in the Face of IT Roadblocks
Paul Potnuru, MD, University of Miami - Miller School of Medicine

Getting to Yes: How to Convince Your IT Department to Support Your Data Warehouse Project
Mohamed Rehman, MD, Johns Hopkins All Children’s Hospital

9:30 am – 11:00 am  
Agora / Centre-Ville

SNACC Panel
Opioic-Free Anesthesia: Biologic Basis and Potential Applications in Neurosurgical Anesthesiology
Moderated by Dhanesh Kumar Gupta, MD, Duke University School of Medicine

Mechanisms of Opioid Induced Hyperalgesia and Possible Future Therapeutic Approaches
Jianren Mao, MD, PhD, Harvard University

Clinical Use of Esmolol, Lidocaine, Dexmedetomidine, and Ketamine for Opioid Free Anesthesia
Helene Beloeil, MD, PhD, University Rennes

9:30 am – 11:00 am  
Av. Duluth

APSF Panel
Can We Eliminate Medical Errors in the Operating Room?
Moderated by Richard Prielipp, MD, MBA, FCCM, University of Minnesota Medical School; APSF Board of Directors

Perioperative Medication Errors: What is the Scope of the Problem?
Karen C. Nanji, MD, MPH, Harvard Medical School; Massachusetts General Hospital

Eliminating Medication Errors using Process Design
Eliot Grigg MD, University of Washington Medicine; Seattle Children’s Hospital

There Has to Be a Better Way
Ken Catchpole, PhD, Medical University of South Carolina

Recommended Best Practices to Keep our Patients Safe, Expert Opinion Review
Joyce A. Wahr, MD, FAHA, University of Minnesota Medical School

9:30 am – 11:30 am  
Av. Laurier

Symposium
The Evolution of Onco-Anaesthesia: Changing How We Care for the Cancer Surgery Patient
Moderated by Julia Dubowitz, MBBS, Peter MacCallum Cancer Centre Anaesthesia

Translational Research in Onco-Anaesthesia: Where Are We Likely to Find Meaningful Answers?
Julia Dubowitz, MBBS, Peter MacCallum Cancer Centre
Bernhard Riedel, MBChB, FCA, FAHA, FASE, MMed., FANZCA, MBA, PhD, Peter MacCallum Cancer Centre
Making a Case for Specialized Onco-Anaesthesia for Perioperative Care of Cancer Surgery Patients
Vijaya Gottumukkala, MB, BS, MD(Anes), FRCA, The University of Texas MD Anderson Cancer Center

Modulating the Perioperative Surgical Stress Response to Improve Long Term Outcomes in Cancer Patients
Gregory Fischer, MD, Memorial Sloan Kettering Cancer

Expanding Onco-anaesthesia Research in the Era of Metadata
Juan Cata, MD, MD Anderson Cancer Center

9:30 am – 12:30 pm Rue Notre-Dame

Workshop
Advanced Perioperative Ultrasound: Ultrasound Findings in Life-Threatening Perioperative Emergencies
David Kiamanesh, MD, Stony Brook University School of Medicine; James A. Osorio, MD, Weill Cornell Medical Center; Oliver Panzer, MD, Columbia University Medical Center; New York-Presbyterian Hospital; Cortessa Russell, MD, Columbia University Medical Center; New York-Presbyterian Hospital; Julia B. Sobol, MD, Columbia University Medical Center; New York-Presbyterian Hospital & Paul D. Weyker, MD, Kaiser Permanente Medical Group of Northern California
Ticketed event; visit the Registration Desk for details.

11:00 am – 12:30 pm Av. Duluth

Panel
Understanding Observational Studies: Updates from Perioperative Epidemiologists
Moderated by Karthik Raghunathan, MD, MPH, Duke University School of Medicine

Hospital-Level Analyses
Duminda Nalaka Wijeyasurydara, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

Studies That Use Propensity Scores
W. Scott Beattie, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

Natural Experiments
Vijay Krishnamoorthy, MD, PhD, Duke University School of Medicine

11:00 am – 12:30 pm Av. Viger

SOCCA Panel
Critical Care Anesthesiologist & Acute Care Continuum of Complex Stroke Patient
Moderated by Ozan Akca, MD, FCCM, University of Louisville Hospital

Management of Acute Complex Stroke: From Emergency Room to the Interventional Suite
Miguel Cobas, MD, FCCM, University of Miami, Jackson South Medical Center

Should I Do MAC or General Anesthesia for My Thrombectomy Patient?
Jerrad Robert Businger, D.O., University of Louisville

Where to Admit the Acute Complex Stroke Patient after Thrombectomy?
Alexander C. Fort, MD, University of Miami Miller School of Medicine

Perioperative Stroke: Diagnostics, Prevention & Management
Phillip Vlisides, MD, University of Michigan Medicine

Critical Care Anesthesiologist’s Role from ER to IR to the ICU: The MVP of Acute Complex Stroke
Ozan Akca, MD, FCCM, University of Louisville Hospital

11:00 am – 11:30 am Break
11:00 am – 12:30 pm  Agora / Centre-Ville

**SmartTots Panel**

Anesthesia and Neurotoxicity: A Conundrum for Clinicians
Moderated by Lena Sun, MD, MPH, Columbia University College of Physicians and Surgeons

- **Preclinical Studies: Are These Models Reliable?**
  Jeffrey Sall, PhD, MD, University of California, San Francisco School of Medicine

- **Clinical Studies: Do We Have an Answer?**
  Mary McCann, MD, MPH, Harvard University School of Medicine

- **Can We Tie the Preclinical Data to Clinical Data?**
  Lena Sun, MD, MPH, Columbia University College of Physicians and Surgeons

11:30 am – 12:15 pm  Av. Van-Horne

Review Course Lecture
Airway Management of the Obstetric Patient: What’s New?
Host: Thomas Hemmerling, MD, MSc, DEAA, McGill University
Speaker: Sonia Vaida, MD, Penn State Milton S. Hershey Medical Center

11:30 am – 12:30 pm  Vortex

Problem-Based Learning Discussion
Pulmonary Alveolar Hemorrhage in a Patient with Short-Term Ventricular Assist Device Awaiting Heart Transplantation
Michael Murray, MD, Geisinger Medical Center; Gebhard Wagener, MD, Columbia University Medical Center & Amy Wang, MD, Columbia University Medical Center
Ticketed event; visit the Registration Desk for details.

11:30 am – 12:30 pm  Ping

Problem-Based Learning Discussion
Updates to Perioperative Management of the Left Ventricular Assist Device Patient Presenting for a Non-Cardiac Procedure**
Christopher Patrick Henson, DO, Vanderbilt University School of Medicine; Sathish S. Kumar, MD, University of Michigan Medicine & Michael R. Mathis, MD, University of Michigan Medicine
Ticketed event; visit the Registration Desk for details.

12:30 pm – 2:00 pm  Place du Canada / Square Dorchester

IARS Poster Session E – Presenters in Attendance
For session details, see the IARS poster tab.

1:00 pm – 2:00 pm  Lunch on Your Own
Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.

2:00 pm – 2:45 pm  Av. Duluth

Review Course Lecture
Cardiovascular Outcomes in Transcatheter Aortic Valve Replacement: Implications for Anesthesiology
Host: Miko Enomoto, MD, Oregon Health & Science University
Speaker: John G. Augoustides, MD, FASE, FAHA, Perelman School of Medicine, University of Pennsylvania
Harish Ramakrishna, MD, FACC, FESC, FASE, Mayo Clinic College of Medicine

2:00 pm – 3:00 pm  Ping

Problem-Based Learning Discussion
Perioperative Management of the Patient with Type 2 Diabetes: From Guidelines to Individualized Patient Care
Elizabeth Watson Duggan, MD, Emory University School of Medicine
Ticketed event; visit the Registration Desk for details.
2:00 pm – 3:00 pm  Vortex
Problem-Based Learning Discussion
Heroin for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB
Michael H. Andreae, MD, Penn State Health
Milton S. Hershey Medical Center & Kim Mauer, MD, School of Medicine, Oregon Health & Sciences University
Ticketed event; visit the Registration Desk for details.

2:00 pm – 3:30 pm  Av. Laurier
STA Panel
Beyond the Hype: Emerging Technologies and Their Potential to Improve Anesthesia Education, Research, and Care Delivery
Moderated by Kai Kuck, PhD, President, STA; University of Utah

Anesthesia Technology: We Can See the Future
Kai Kuck, PhD, President, STA; University of Utah

Blockchain and Anesthesia: Moving Beyond Bitcoin to Enhance Patient Safety
John F. Pearson, MD, Beth Israel Deaconess Medical Center

Man vs. Machine—or Man plus Machine?
Leveraging Machine Learning and AI to Improve Health Care
Parisa Rashidi, PhD, University of Florida College of Medicine

Using Virtual and Augmented Reality to Augment Anesthesia Education and the Patient Experience
Clyde Matava, MBChB, DA, MMed, Hospital for Sick Children

2:00 pm – 3:30 pm  Agora / Centre-Ville
SOCCA Panel
Sepsis-Induced Coagulopathy: Mechanisms and Management
Moderated by Wei Chao, MD, PhD, University of Maryland School of Medicine

Coagulopathy in Sepsis: An Overview
Jean-Francois Pittet, MD, The University of Alabama at Birmingham

Molecular Link between Inflammation and Coagulopathy in Sepsis
Brittney Williams, MD, University of Maryland School of Medicine

DIC in Sepsis: A Practical Approach
Jecko Thachil, MD, Manchester Royal Infirmary Haematology

2:00 pm – 5:00 pm  Rue Saint-Denis
Workshop
Bootcamp for Brief Cognitive Assessment Skills in the Perioperative Setting
Franchesca Arias, PhD, University of Florida College of Medicine & Catherine Price, PhD, ABPP/CCN, University of Florida College of Medicine
Ticketed event; visit the Registration Desk for details.
SUNDAY, MAY 19: IARS

2:00 pm – 6:00 pm  Av. Van-Horne

**Introduction**
Eric Jacobsohn, MBChB, MHPE, FRCPC, University of Manitoba
Jeanine Wiener-Kronish, MD, Massachusetts General Hospital

**How to Conduct Pragmatic Trials in Under-resourced Countries**
Bruce Biccard, MD, University of KwaZulu-Natal, South Africa

**How to Conduct a Massive Multi-center Stepped Wedge Pragmatic Trial**
Jessica Spence, MD, McMaster University

**Trials and Tribulations of Ambitious Multicenter Pragmatic Trials**
David Mazer, MD, University of Toronto

**IMPACT Awards Presentations**
Duminda Nalaka Wijeysundera, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

2:00 pm – 6:00 pm  Rue Mansfield

**Scholars’ Program: Leadership Workshop**
Self-Awareness and Self-Management
Workshop led by Duane Anthony Wilson, MA, University of Notre Dame & Jean Ann Larson, FACHE, LFHIMSS, FIISE, UAB Health System; UAB School of Medicine
Ticketed event; visit the Registration Desk for details.

3:30 pm – 4:00 pm

3:30 pm – 4:00 pm  Vortex

**SNACC Problem-Based Learning Discussion**
Perioperative Management of the Patient with Closed Head Injury for Non-Neurologic Procedure
Martin Dworschak, MD, MBA, Medical University of Vienna & Letha Mathews, MD, Vanderbilt University Medical Center
Ticketed event; visit the Registration Desk for details.

4:00 pm – 5:00 pm

4:00 pm – 5:00 pm  Ping

**Problem-Based Learning Discussion**
Perioperative Atrial Fibrillation: Challenges in Prevention and Management
Suzanne Bennett, MD, University of Cincinnati Medical Center & Kunal Karamchandani, MD, FCCP, Penn State Milton S. Hershey Medical Center
Ticketed event; visit the Registration Desk for details.

4:00 pm – 5:00 pm  Av. Duluth

**Innovative Session**
Anesthetic Management of Intraoperative Neurophysiologic Monitoring (IONM) Signal Changes: A Case-Based, Simulation-Driven Learning Experience
Moderated by Colby G. Simmons, DO, MBA, University of Colorado School of Medicine
Leslie Jameson, MD, University of Colorado School of Medicine
4:00 pm – 5:30 pm  Av. Viger
Panel
Israel Society of Anesthesiologists &
Israel Association of Obstetric Anesthesia
Obstetric Anesthesia in Israel: Modern
Obstetric Anesthesia Challenges in Traditional
Populations
Moderated by Yehuda Ginosar, BSc, MBBS,
Hadassah Hebrew University Medical Center

“Be Fruitful and Multiply”: Anesthetic
Challenges of High Order (>5) Cesarean
Delivery
Alexander Ioscovich, MD, Shaare Zedek
Medical Center, Hebrew University

“In Sorrow Thou Shalt Bring Forth
Children”: Do Anesthetic Interventions
Have a Role to Play in Preventing Post-
partum Depression?
Sharon Orbach-Zinger, MD, Rabin Medical
Center, Campus Beilinson, Tel-Aviv
University

“Two Nations Are in Thy Womb”: Health
Care and Obstetric Anesthesia as a
Bridge to Peace
Yehuda Ginosar, BSc MBBS, Hadassah
Hebrew University Medical Center

4:00 pm – 6:00 pm  Av. Laurier
Symposium
Cell Death & Survival: Beyond Oxygenation
Moderated by Mervyn Singer, MB BS, MD,
FRCP(Lon), FRCP(Edin), FFICM, University College
London

Sepsis and Mitochondria
Mervyn Singer, MB BS, MD, FRCP(Lon),
FRCP(Edin), FFICM, University College
London

Exercise Preconditioning
Zhen Yan, MD, PhD, University of Virginia
School of Medicine

Hibernating Animals and Stress
Quintin Jose Quinones, MD, PhD, Duke
University Medical Center

Tying It All Together: Future Strategies
and Therapy
Robert Thiele, MD, University of Virginia
School of Medicine

4:00 pm – 5:30 pm  Agora / Centre-Ville
Panel
Encouraging the Next Generation of Women:
Growing Junior Faculty as Leaders
Moderated by Kathryn K. Lauer, MD, Medical
College of Wisconsin

Leading from Within: How to Build a
Team While Managing Clinical Service
Demands
Susan A. Smith, MD, The Ochsner Clinic

How to Strategically Say “No” in Order
to Build Your Career
Harriet W. Hopf, Speaker, MD, University of
Utah Health Care
6:00 pm – 8:00 pm

McGill

ISPCOP and McGill Anesthesia Networking Session
Exploring the Role of Prehabilitation and Patient Psychology in ERAS
Moderated by Gabriele Baldini, MD, McGill University; Naveen Eipe, MD, The Ottawa Hospital

Impact of Prehabilitation on ERAS
Francesco Carli, MD, McGill University

Preoperative Anxiety and Pain Management
Michael Sullivan, MD, McGill University

6:30 pm – 8:00 pm

Taste of Montreal Dine-Around
If you haven’t already, be sure to pre-register for this intimate dining experience at the registration desk. Space is limited; dinner costs are the responsibility of each attendee.
MONDAY, MAY 20 AT-A-GLANCE: IARS

8:00 am – 5:00 pm

IARS POSTER SESSION F: OPEN VIEWING

6:15 am – 7:15 am  Foyer - Place du Canada
Continental Breakfast

6:15 am – 7:15 am  Rue Crescent
Marketing Yourself for Success Continental Breakfast*

6:15 am – 7:15 am  Square Victoria
Trending Topics Continental Breakfast*

7:30 am – 8:15 am  Av. Viger
SPAQI RCL: Perioperative Troponin and MINS (Myocardial Injury after Noncardiac Surgery)

7:30 am – 8:30 am  Vortex
PBLD: Rib Fracture Pain Management: Controversies and Conundrums

7:30 am – 8:30 am  Ping
PBLD: Facts and Myths of Hyperkalemia*

7:30 am – 9:00 am  Av. Laurier
TAS, SOAP, SPA, and SAGA Panel: Trauma Anesthesia for Special Populations; Obstetric, Pediatric and Geriatric Patients

7:30 am – 9:30 am  Agora / Centre-Ville
SYM: Intraoperative Opioids: Postoperative Consequences, Opioid-Free Anesthesia and Nociception-Index Guided Administration

9:00 am – 9:30 am  
Break

9:30 am – 10:15 am  Av. Duluth
ISPCOP RCL: Ambulatory Surgery in Morbid Obesity: Quo Vadis?

9:30 am – 10:30 am  Ping

9:30 am – 10:30 am  Vortex
SAGA PBLD: My Patient Is 92 Years Old, Has a DNR, and Wants to Have Elective Shoulder Surgery!*

9:30 am – 11:00 am  Av. Laurier
Panel: Anesthesia and Sensory Awareness: How Mechanism May Inform Clinical Practice

9:30 am – 11:00 am  Av. Viger
Panel: Anesthesiologists as Monitors of Physiology: Remote Monitoring of Postoperative and High-Risk Patients

9:30 am – 12:00 pm  Av. Van-Horne
Innovative Session: Exploring Healthcare Disparities in Perioperative Medicine: Why Do We Care?

9:30 am – 12:30 pm  Rue Notre-Dame
Workshop: (Slightly) Advanced Statistics: Regression Analysis for the Anesthesiologist*

11:00 am – 12:30 pm  Av. Viger
SPAQI and SAGA Panel: Mind Your Elders! A Multidisciplinary Approach to Geriatric Perioperative Care

*Ticketed event, visit registration for details
<table>
<thead>
<tr>
<th>Time</th>
<th>Location/Room</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 am – 12:30 pm</td>
<td>Av. Laurier</td>
<td>Panel: What’s New in Critical Care: Cardiac, Neuro, Surgical and Medical Intensive Care</td>
</tr>
<tr>
<td>11:30 am – 12:15 pm</td>
<td>Agora / Centre-Ville</td>
<td>ASER RCL: Perioperative Medicine and Enhanced Recovery: Current State and Future Directions</td>
</tr>
<tr>
<td>11:30 am – 12:30 pm</td>
<td>Vortex</td>
<td>PBLD: What’s Up: Evaluating Unexpected Intraoperative Hyperkalemia*</td>
</tr>
<tr>
<td>11:30 pm – 12:30 pm</td>
<td>Ping</td>
<td>PBLD: Turning Blue on the Way to PACU. Unexpected Deterioration in a Pediatric Patient*</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Place du Canada / Square Dorchester</td>
<td>IARS Poster Session F – Presenters in Attendance</td>
</tr>
<tr>
<td>12:00 pm – 2:00 pm</td>
<td></td>
<td>Lunch on Your Own</td>
</tr>
<tr>
<td>2:00 pm – 2:45 pm</td>
<td>Av. Duluth</td>
<td>RCL: Patient Selection for Ambulatory Surgery: Can Any Patient Be an Outpatient?</td>
</tr>
<tr>
<td>2:00 pm – 3:00 pm</td>
<td>Vortex</td>
<td>PBLD: One-Lung Anesthesia for Pacing Wire Change in 115kg Fontan Patient*</td>
</tr>
<tr>
<td>2:00 pm – 3:30 pm</td>
<td>Agora / Centre-Ville</td>
<td>SAGA Panel: Waves of Delirium: Anesthetic-Induced EEG Patterns that Predict</td>
</tr>
<tr>
<td>2:00 pm – 3:30 pm</td>
<td>Av. Viger</td>
<td>Panel: Incivility in Academic Medicine: Incidence, Instigators and Impact</td>
</tr>
<tr>
<td>2:00 pm – 4:00 pm</td>
<td>Av. Laurier</td>
<td>SYM: Organ Protection during the Perioperative Period</td>
</tr>
<tr>
<td>2:00 pm – 4:00 pm</td>
<td>Av. Van-Horne</td>
<td>Innovative Session: Practical Lessons from Over 25-Years of Work in TIVA &amp; Anesthetic Clinical Pharmacology</td>
</tr>
<tr>
<td>3:30 pm – 4:00 pm</td>
<td></td>
<td>Break</td>
</tr>
<tr>
<td>4:00 pm – 4:45 pm</td>
<td>Av. Duluth</td>
<td>RCL: Emergency General Surgery, the Elderly and Non-Beneficial Surgery: The Problems, Solutions and Outcomes</td>
</tr>
<tr>
<td>4:00 pm – 5:30 pm</td>
<td>Agora / Centre-Ville</td>
<td>eSAS Panel: Update and Primer on New Techniques in Basic Science Anesthesia Research (Optogenetics, CRISPR Cas-9, and Next-Gen Sequencing)</td>
</tr>
<tr>
<td>4:00 pm – 5:30 pm</td>
<td>Av. Viger</td>
<td>Panel: Pediatric Cardiac Anesthesia: Innovations from the Other Side of the Drape</td>
</tr>
<tr>
<td>6:00 pm – 7:30 pm</td>
<td></td>
<td>Taste of Montreal Dine-Around*</td>
</tr>
</tbody>
</table>

*Ticketed event, visit registration for details
6:15 am – 7:15 am  Foyer - Place du Canada
Continental Breakfast
Come meet your fellow anesthesiologists over a cup of coffee – you never know who you’ll run into!

6:15 am – 7:15 am  Rue Crescent
Marketing Yourself for Success Continental Breakfast
We know you’re great, and it’s time everyone else knows it, too. Come have coffee and a bagel while you pick up some marketing pointers. Ticketed event; visit the Registration Desk for details.

6:15 am – 7:15 am  Square Victoria
Trending Topics Continental Breakfast
Jump feet-first into the day with discussions about what’s new, controversial, exciting, and top-of-mind in anesthesia. Ticketed event; visit the Registration Desk for details.

7:30 am – 8:15 am  Av. Viger
SPAQI Review Course Lecture
Perioperative Troponin and MINS (Myocardial Injury after Noncardiac Surgery)
Host: Ashish K. Khanna MD, FCCP, FCCM, Wake Forest University School of Medicine
Speaker: Steven L. Cohn, MD, FACP, SFHM
University of Miami Miller School of Medicine

7:30 am – 8:30 am  Vortex
Problem-Based Learning Discussion
Rib Fracture Pain Management: Controversies and Conundrums
Naveen Eipe, MD, The Ottawa Hospital

7:30 am – 8:30 am  Ping
Problem-Based Learning Discussion
Facts and Myths of Hyperkalemia
Suzanne Bennett, MD, University of Cincinnati Medical Center & Corey S. Scher, MD, New York University School of Medicine
Ticketed event; visit the Registration Desk for details.

7:30 am – 9:00 am  Av. Laurier
SAGA
TAS, SOAP, SPA, and SAGA Panel
Trauma Anesthesia for Special Populations; Obstetric, Pediatric and Geriatric Patients
Moderated by Michael Murray, MD, Geisinger Medical Center

7:30 am – 9:30 am  Agora / Centre-Ville
Symposium
Intraoperative Opioids: Postoperative Consequences, Opioid-Free Anesthesia and Nociception-Index Guided Administration
Moderated by Philippe Richebé, MD, PhD, Cliniques Universitaires Saint Luc

Opioid-Induced Tolerance and Hyperalgesia in Perioperative Medicine
Martin S. Angst, MD, Stanford University School of Medicine

Opioid-Free Anesthesia: Future Direction?
Patricia Marie Lavand’homme, MD, PhD, Cliniques Universitaires Saint Luc

IARS 2019 ANNUAL MEETING AND INTERNATIONAL SCIENCE SYMPOSIUM
Intraoperative Nociception Monitors: Better Opioid Administration for Better Outcomes?
Philippe Richebé, MD, PhD, University of Montreal

9:00 am – 9:30 am
Break

9:30 am – 10:15 am
Av. Duluth
ISPCOP Review Course Lecture
Ambulatory Surgery in Morbid Obesity: Quo Vadis?
Host: Satya Krishna Ramachandran, FRCA, Harvard Medical School
Speaker: Naveen Eipe, MD, The Ottawa Hospital

Problem-Based Learning Discussion
What Is New in Management of Cirrhotic Patient for a TIPS Procedure?
Marina Moguilevitch, MD, Montefiore Medical Center

9:30 am – 10:30 am
Vortex
SAGA
SAGA Problem-Based Learning Discussion
My Patient Is 92 Years Old, Has a DNR, and Wants to Have Elective Shoulder Surgery!
Martin Dworschak, MD, MBA, Medical University of Vienna; Julie McSwain, MD, Medical University of South Carolina & Sylvia H. Wilson, MD, Medical University of South Carolina

9:30 am – 11:00 am
Av. Laurier
Panel
Anesthesia and Sensory Awareness: How Mechanism May Inform Clinical Practice
Moderated by Max B. Kelz, MD, PhD, Perelman School of Medicine, University of Pennsylvania
Unconsciousness, Sensory Disconnection and Predictive Coding: Why It Matters to the Anesthesiologist
Robert Sanders, MBBS, PhD, FRCA, University of Wisconsin School of Medicine and Public Health
Spatiotemporal Waves of Cortical Activity Are Evoked by Sensory Stimuli in the Anesthetized Brain
Alex Proekt, MD, PhD, Perelman School of Medicine, University of Pennsylvania
Cortical Networks Mediating Auditory Predictive Coding: Changes Across Awareness States
Matthew Banks, PhD, University of Wisconsin School of Medicine and Public Health
Thalamocortical Circuit Activation: Good or Evil?
Aeyal Raz, MD, PhD, University of Wisconsin School of Medicine and Public Health

9:30 am – 11:00 am
Av. Viger
Panel
Anesthesiologists as Monitors of Physiology: Remote Monitoring of Postoperative and High-Risk Patients
Moderated by Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital
Remote Monitoring: Updates and Future Studies
Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital
Results of One Year of Remote Monitoring of Postoperative Head and Neck Cancer Patients
Kyan C. Safavi, MD, MBA, Massachusetts General Hospital; Harvard Medical School
Routine Postsurgical Anesthesia Visit to Improve Patient Outcome (TRACE)
Wolfgang Buhre, MD, PhD, University Clinic Maastricht

Remotely Monitoring ECMO Patients: How to Do It
Kenneth T. Shelton, MD, Massachusetts General Hospital

Biosensors and Wearables in Healthcare
Stephen A. Esper, MD, University of Pittsburgh Medical Center

9:30 am – 12:00 pm Av. Van-Horne

Innovative Session
Exploring Healthcare Disparities in Perioperative Medicine: Why Do We Care?
Michael H. Andreae, MD, Penn State Health Milton S. Hershey Medical Center
Erika Blacksher, PhD, University of Washington Medicine
Nathalia Jimenez, MD, MPH, Seattle Children’s Hospital
Amos Jones, Esq. Doctor of Laws, Hepatitis Foundation International
Jay S. Kaufman, PhD, McGill University
Helen H. Lee, MD, MPH, College of Medicine, University of Illinois at Chicago
J. Renee Navarro, PharmD, MD, University of California, San Francisco School of Medicine

9:30 am – 12:30 pm Rue Notre-Dame

Workshop
(Slightly) Advanced Statistics: Regression Analysis for the Anesthesiologist
Thomas M. Austin, MD, MS, Emory University School of Medicine; Lisa Kit-Ying Lee, MD, MS, University of California, Los Angeles David Geffen School of Medicine & Dmitry Tumin, PhD, Nationwide Children’s Hospital
Ticketed event; visit the Registration Desk for details.

11:00 am – 12:30 pm Av. Viger

SPAQI and SAGA Panel
Mind Your Elders! A Multidisciplinary Approach to Geriatric Perioperative Care
Moderated by Jeanna D. Blitz, MD, New York University School of Medicine

The Geriatric Patient: A Paradigm Shift in Preoperative Assessment
Heather E. Nye, MD, PhD, University of California, San Francisco School of Medicine

Perioperative Frailty-Epidemiology and Assessment
Daniel I. McIsaac, MD, MPH, FRCPC, University of Ottawa Faculty of Medicine

Cognitive Vital Signs for Your Older Adult Patient
Catherine Price, PhD, ABPP/CCN, University of Florida College of Medicine

Prehabilitation for the Elderly Surgical Patient
Michelle Humeidan, MD, PhD, The Ohio State University - Wexner Medical Center Anesthesiology

Intraoperative Management of the Geriatric Patient
Zdravka Zafirova, MD, The Icahn School of Medicine at Mount Sinai

11:00 am – 12:30 pm Av. Laurier

Panel
What’s New in Critical Care: Cardiac, Neuro, Surgical and Medical Intensive Care
Moderated by Ronald Pearl, MD, PhD, Stanford University School of Medicine

What’s New in Cardiac Critical Care
Michael Wall, MD, FCCM, University of Minnesota Medical School

What’s New in Neuro Critical Care
Jean G. Charchaflieh, MD, MPH, DrPH, Yale School of Medicine
What’s New in Surgical Critical Care  
Jean-Francois Pittet, MD, University of Alabama at Birmingham

What’s New in Medical Critical Care  
Ronald Pearl, MD, PhD, Stanford University School of Medicine

11:30 am – 12:15 pm  
Agora / Centre-Ville

ASER Review Course Lecture
Perioperative Medicine and Enhanced Recovery: Current State and Future Directions
Host: Susan Goobie, MD, Harvard Medical School
Speakers: Santhanam Suresh, MD, Ann & Robert H. Lurie Children’s Hospital of Chicago
Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA, Stony Brook University School of Medicine

11:30 am – 12:30 pm  
Vortex

Problem-Based Learning Discussion
What’s Up: Evaluating Unexpected Intraoperative Hyperkalemia
Jeffrey Gardner, MD, Wake Forest Baptist Health & Roman Schumann, MD, Tufts Medical Center
Ticketed event; visit the Registration Desk for details.

12:30 pm – 2:00 pm

IARS Poster Session F – Presenters in Attendance
See IARS Posters tab for details.

11:30 pm – 12:15 pm  
Agora / Centre-Ville

Lunch on Your Own
Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.

2:00 pm – 2:45 pm  
Av. Duluth

Review Course Lecture
Patient Selection for Ambulatory Surgery: Can Any Patient Be an Outpatient?
Host: Bobbie Jean Sweitzer, MD, FACP, Northwestern University Feinberg School of Medicine
Speaker: Girish P. Joshi, MB BS, MD, FFARCSI, The University of Texas Southwestern Medical Center

2:00 pm – 3:00 pm  
Vortex

Problem-Based Learning Discussion
One-Lung Anesthesia for Pacing Wire Change in 115kg Fontan Patient
Susan P. Taylor, MD, MPH, Medical College of Wisconsin & Anupama Wadhwa, MBBS, University of California, San Diego School of Medicine
Ticketed event; visit Registration Desk for details.

2:00 pm – 3:30 pm  
Agora / Centre-Ville

SAGA Panel
Waves of Delirium: Anesthetic-Induced EEG Patterns that Predict Postoperative Delirium
Moderated by Oluwaseun Johnson-Akeju, MD, Massachusetts General Hospital, Harvard Medical School

Understanding Relationships between Intraoperative EEG Features, Anesthetic Dosage, Patient Cognition
Miles Berger, MD, PhD, Duke University Medical Center

Delirium in the PACU: What Does It Mean for Patient Safety? Can It Be Predicted and/or Prevented?
Paul S. Garcia, MD, PhD, Columbia University Medical Center
Electroencephalographic Evidence of Sensitivity to Volatile Anesthetic Agents as a Predictor
Bradley A. Fritz, MD, Washington University School of Medicine

Hepatic Ischemia and Reperfusion Injury
Simon C. Robson, MD, Harvard Medical School

Perioperative Kidney Protection
Alexander Zarbock, MD, University Hospital Münster

2:00 pm – 3:30 pm Av. Viger

Panel
Incivility in Academic Medicine: Incidence, Instigators and Impact
Moderated by Maya Hastie, MD, Columbia University Medical Center

Defining “Incivility” in Medicine
Qi Cui Ott, MD, Beth Israel Deaconess Medical Center

Sources of Incivility in Medicine
Maya Hastie, MD, Columbia University Medical Center

Impact of Incivility in the Workplace
Harriet W. Hopf, MD, University of Utah Health Care

Managing Incivility: The Art and Science
Jonathan Hastie, MD, Columbia University Medical Center

2:00 pm – 4:00 pm Av. Laurier

Symposium
Organ Protection during the Perioperative Period
Moderated by Holger K. Eltzschig, MD, PhD, McGovern Medical School, University of Texas

Introduction
Jean-Francois Pittet, MD, University of Alabama at Birmingham

Novel Therapeutic Concepts for Acute Respiratory Distress Syndrome
Holger K. Eltzschig, MD, PhD, McGovern Medical School, University of Texas

Cardioprotection during the Perioperative Period
Mansoureh Eghbali, PhD, University of California, Los Angeles David Geffen School of Medicine

Hepatic Ischemia and Reperfusion Injury
Simon C. Robson, MD, Harvard Medical School

Perioperative Kidney Protection
Alexander Zarbock, MD, University Hospital Münster

2:00 pm – 4:00 pm Av. Van-Horne

Innovative Session
Practical Lessons from Over 25-Years of Work in TIVA & Anesthetic Clinical Pharmacology
Moderated by Dhanesh Kumar Gupta, MD, Duke University School of Medicine
Talmage Dan Egan, MD, University of Utah

3:30 pm – 4:00 pm

Break

4:00 pm – 4:45 pm Av. Duluth

Review Course Lecture
Emergency General Surgery, the Elderly and Non-Beneficial Surgery: The Problems, Solutions and Outcomes
Host: Gebhard Wagener, MD, Columbia University Medical Center
Speakers: Nial Quiney, MBBS, FRCA, Royal Surrey County Hospital Anaesthetics
Geeta Aggarwal, MBBS, MRCP, FRCA, Royal Surrey County Hospital Anaesthetics

4:00 pm – 5:30 pm Agora / Centre-Ville

eSAS Panel
Update and Primer on New Techniques in Basic Science Anesthesia Research (Optogenetics, CRISPR Cas-9, and Next-Gen Sequencing)
Moderated by Vivianne Tawfik, MD, PhD, Stanford University School of Medicine
Optogenetic and Viral Tools for Identification and Manipulation of Neural Circuits  
Aaron Norris, MD, PhD, Washington University School of Medicine

Next-Generation Sequencing for Understanding Cell-specific Contributions to Your Disease of Interest  
Vivianne Tawfik, MD, PhD, Stanford University School of Medicine

CRISPR Cas-9 Targeted Mutations and Genetic Dissection of Neural Circuits Relevant to Hypnosis  
Andrew McKinstry-Wu, MD, Perelman School of Medicine, University of Pennsylvania

4:00 pm – 5:30 pm  
Av. Viger

Panel  
Pediatric Cardiac Anesthesia: Innovations from the Other Side of the Drape  
Moderated by Santhanam Suresh, MD, Ann & Robert H. Lurie Children’s Hospital of Chicago

ERAS for Pediatric Cardiac Anesthesia: Regional Anesthesia’s New Turf  
Jeremy Deer, MD, Northwestern University Feinberg School of Medicine

Can Neurologic Injury from Cardiac Surgery Be Prevented by Hemodynamic Optimization?  
Ken M. Brady, MD, Lurie Children’s Hospital of Chicago

Adult Congenital Heart Disease: A Conundrum That We All Have to Face  
James DiNardo, MD, Boston Children’s Hospital

6:00 pm – 7:30 pm  
Taste of Montreal Dine-Around  
If you haven’t already, be sure to pre-register for this intimate dining experience at the registration desk. Space is limited; dinner costs are the responsibility of each attendee.
If you are a transplant anesthesiologists or critical care physician, join the Society for the Advancement of Transplant Anesthesia (SATA) at the Third Annual Symposium.

Registration fee is waived for SATA members; $120 for non-members. Register on-site outside Av. Duluth. No CME will be provided for this session.

8:00 am – 8:30 am
Registration

8:30 am – 8:45 am
Welcome and Introduction
Susan Mandell, MD, PhD, University of Colorado
Ernesto A. Pretto, MD, University of Miami Miller School of Medicine

8:45 am – 9:30 am
Session 1: Everything Is Going to Be Faster and Better
Stuart McCluskey, MD, University of Toronto and University Health Network

Implementing ERAS and Fast Track in a Liver Transplant Program: A Road Map
Stephen Aniskevich, MD, Mayo Clinic

Standardizing Liver Transplant Anesthesia: Quality Indicators and Education
Dieter Adelmann, MD, University of California, San Francisco School of Medicine

9:30 am – 10:00 am
Session 2: Pro/Con Debate: I Need CRRT in the Operating Room
Ramona Nicolau-Raducu, MD, PhD, University of Miami Miller School of Medicine
Nicolette Schlichting, MD, Mount Sinai Hospital
Vivienne Hannon, MBBS, University of California, San Francisco, Dept of Anesthesia

10:00 am – 10:20 am
Session 3: Case and Problem-Based Learning Discussion
Abdominal Transplantation
Cara Crouch, MD, University of Colorado Hospital

10:20 am – 10:45 am
Break

10:45 am – 11:45 am
Session 4: Thoracic Organs
Andrea Miltiades, MD, Columbia University Medical Center

Combined Abdominal and Thoracic Transplants
Barbara Wilkey, MD, University of Colorado
Benjamin Abrams, MD, University of Colorado Hospital

Combined Abdominal and Thoracic Transplants
Yoshihisa Morita, MD, Henry Ford Hospital

12:00 pm – 12:15 pm
Session 5: What’s New in Transplant Anesthesiology?
Geraldine Diaz, DO, University of Chicago Medical Center

12:15 pm – 12:30 pm
Closing Remarks
Gebhard Wagener, MD, Columbia University Medical Center
All poster sessions, the Poster Information desk, and the Call4Posters™ desk are located in the Place du Canada and Square Dorchester Rooms.

IARS Poster Sessions are grouped based on subspecialty topic and will include an open poster viewing time and a poster presentation session.

**IARS POSTER SESSION D: SATURDAY, MAY 19**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am – 8:00 am</td>
<td>Setup</td>
</tr>
<tr>
<td>8:00 am – 5:00 pm</td>
<td>Open Viewing</td>
</tr>
<tr>
<td>1:00 pm – 2:30 pm</td>
<td>Poster Session</td>
</tr>
<tr>
<td>5:00 pm – 5:30 pm</td>
<td>Breakdown</td>
</tr>
</tbody>
</table>

**IARS POSTER SESSION E: SUNDAY, MAY 19**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am – 8:00 am</td>
<td>Setup</td>
</tr>
<tr>
<td>8:00 am – 5:00 pm</td>
<td>Open Viewing</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Poster Session</td>
</tr>
<tr>
<td>5:00 pm – 5:30 pm</td>
<td>Breakdown</td>
</tr>
</tbody>
</table>

**IARS POSTER SESSION F: MONDAY, MAY 20**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am – 8:00 am</td>
<td>Setup</td>
</tr>
<tr>
<td>8:00 am – 5:00 pm</td>
<td>Open Viewing</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Poster Session</td>
</tr>
<tr>
<td>5:00 pm – 5:30 pm</td>
<td>Breakdown</td>
</tr>
</tbody>
</table>

**Viewing e-Posters**
e-Posters are available for viewing throughout the Annual Meetings at [http://tiny.cc/lr3l5y](http://tiny.cc/lr3l5y).

**Call4Posters™ Pick-up**
Orders placed through Call4Posters™ will be available for pick-up at the Call4Posters™ Desk.

- **Thursday, May 16** 7:00 am – 1:30 pm
- **Friday, May 17** 7:00 am – 1:30 pm
- **Saturday, May 18** 7:30 am – 2:00 pm
- **Sunday, May 19** 7:30 am – 2:00 pm
- **Monday, May 20** 7:30 am – 10:00 am
<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway Management</td>
<td>D1-7, E1-13, F1-6</td>
</tr>
<tr>
<td>Ambulatory Anesthesia</td>
<td>D8-13, E14-17, F7-8</td>
</tr>
<tr>
<td>Anesthetic Pharmacology</td>
<td>D14-18, E18-24, F9-19</td>
</tr>
<tr>
<td>Cardiovascular Anesthesiology</td>
<td>D22-31, E32-37, F23-34</td>
</tr>
<tr>
<td>Critical Care</td>
<td>D32-53, E38-49, F35-51</td>
</tr>
<tr>
<td>Economics, Education and Policy</td>
<td>D54-62, E50-60, F52-67</td>
</tr>
<tr>
<td>Geriatric Anesthesia</td>
<td>D63-66, F68-72</td>
</tr>
<tr>
<td>Global Health</td>
<td>D67, E61-66</td>
</tr>
<tr>
<td>Liver</td>
<td>D68-71, E67-69</td>
</tr>
<tr>
<td>Medically Challenging Cases</td>
<td>D72-102, E70-101, F73-96</td>
</tr>
<tr>
<td>Neuroscience in Anesthesiology and Perioperative Medicine</td>
<td>D103-120, E102-118, F97-117</td>
</tr>
<tr>
<td>Obesity</td>
<td>F118-123</td>
</tr>
<tr>
<td>Obstetric Anesthesiology</td>
<td>D121-125, E119-123, F124-127</td>
</tr>
<tr>
<td>Pain Mechanisms</td>
<td>D126-127, F128</td>
</tr>
<tr>
<td>Patient Safety</td>
<td>D136-141, E132-145, F138-143</td>
</tr>
<tr>
<td>Pediatric Anesthesiology</td>
<td>D142-156, E146-157, F144-159</td>
</tr>
<tr>
<td>Perioperative Anesthesia</td>
<td>D157-178, E158-178, F160-180</td>
</tr>
<tr>
<td>Regional Anesthesia</td>
<td>D179-185, E179-190, F181-193</td>
</tr>
<tr>
<td>Respiration</td>
<td>E191-194, F194</td>
</tr>
<tr>
<td>Sleep Medicine</td>
<td>D186-190, E195, F195-196</td>
</tr>
<tr>
<td>Technology, Computing and Simulation, Equipment Monitoring</td>
<td>D191-203, E196-204, F197-205</td>
</tr>
<tr>
<td>Trauma</td>
<td>D204-209, E205-209</td>
</tr>
<tr>
<td>Session D</td>
<td>Title</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>D1</td>
<td>Chronic Inhibition of Acetylcholinesterase (AChE) Attenuates in Vivo Airway Hyperreactivity and Lung Inflammation in a Model of Murine Asthma</td>
</tr>
<tr>
<td>D2</td>
<td>Posterior Tracheal Diverticulum in a Right Lung Transplant</td>
</tr>
<tr>
<td>D3</td>
<td>Induction of Endothelial Barrier Dysfunction by Serum Factors of Traumatic Brain Injury in Rats</td>
</tr>
<tr>
<td>D4</td>
<td>Left Molar Approach Intubation for a Complex Emergency Airway in a Patient with Achondroplasia and Know Difficult Airway</td>
</tr>
<tr>
<td>D5</td>
<td>Laryngeal Mask Airway with An In-Built Endotracheal Tube</td>
</tr>
<tr>
<td>D6</td>
<td>Do the Changes in the Amount of Lubrication and Temperature Affect the Inhibitory Effects of Lubrication on the Increase in the Endotracheal Tube Cuff Pressure during Nitrous Oxide Exposure in Vitro?</td>
</tr>
<tr>
<td>D7</td>
<td>Protecting the Airway and Physician: Lessons from 214 Cases of Endotracheal Intubation Litigation</td>
</tr>
<tr>
<td>D8</td>
<td>Dexmedetomidine for the Prevention of Fentanyl - Induced Cough in Patients Undergoing General Anesthesia: A Double-Blind Randomized and Placebo Controlled Study</td>
</tr>
<tr>
<td>D9</td>
<td>High Rates of Postoperative Opioid Overprescription Following Ambulatory Breast Surgery</td>
</tr>
<tr>
<td>D10</td>
<td>Dexmedetomidine vs Midazolam for Medical Thoracoscopy-Randomized, Noninferiority Trial</td>
</tr>
<tr>
<td>D11</td>
<td>Reasons for Postoperative Inpatient Admissions after Ambulatory Surgery: A Single Center Retrospective Study</td>
</tr>
</tbody>
</table>
**D13. Outcomes after Laparoscopic Cholecystectomy: Does the Surgical Setting Matter?**  
*Eric Rosero, Girish P. Joshi*

**D14. Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-Based Nano-Emulsion: Safety, Efficacy and Toxicity in Dogs**  
*Behrouz Ashrafi, Ernesto A. Pretto, Christopher A. Fraker*  
*Kosaka Best of Meeting Award Finalist - Basic Science Research*

**D15. Anesthetic Sensitivities in the Zebrafish**  
*Victoria Bedell, Jayce Breig, Micheal A. Pack, Max B. Kelz, Roderic G. Eckenhoff*

**D16. Effect of Propofol on in Vitro Functions of Breast Cancer Cell Lines**  
*Zhaosheng Jin, Ru Li, Yujie Huang, Jun Lin*

**D17. Effect of Sevoflurane and Propofol on the Phenotype of Lung Cancer Cell in Vitro, Preliminary Findings**  
*Zhaosheng Jin, Ru Li, Michelle Jaromy, Hengrui Liu, Jun Lin*

**D18. Mixtures of General Anesthetics Act Synergistically Only If They Act on Different Binding Sites on Synaptic GABA<sub>A</sub> Receptors: A Study in Tadpoles**  
*Daniel Kent, Keith W. Miller*

**D19. Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability**  
*Domagoj Mladinov, Kristine Yarnoff, Enika Nagababu, Dan Berkowitz, Courtney Lawrence, Paul Ness, Thomas Kickler, Patricia Brunker, Joan Boyd, Jeffrey Dodd-O*  
*Kosaka Best of Meeting Award Top Finalist - Clinical Research*

**D20. Derivation of Formula for Average Hematocrit Under Isovolemic Conditions**  
*Thomas M. Austin, Brett S. Escarza, Chris Fiedorek, Michael Fiedorek, Susana Cruz Beltran, Humphrey Lam*

**D21. Platelet Functionality Is Decreased after Infusion through a Rapid Infusion System**  
*Shahrukh Bengali, Ilan Keidan, Nikolaus Gravenstein, Jeffrey D. White, Joshua Sappenfield*

**D22. Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight**  
*Stephen Ellison, Lydia Kwee, Nathan Bihlmeyer, James Bain, Damian Craig, William Kraus, Svati Shah*  
*Kosaka Best of Meeting Award Finalist - Scholars*

**D23. Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis Is Influenced by Disease Severity and Tidal Volume**  
*Khoa Nguyen, Chris Ortiz, Trixie Le, Mansoureh Eghbali, Nir Hoftman, Soban Umar*  
*Kosaka Best of Meeting Award Finalist - Scholars*

**D24. Milrinone Decreases Late Apoptosis in H9C2 Cardiomyocytes through a Non-Dependent ATP Pathway**  
*Jose V. Montoya-Gacharna, June Rim, Sachin Gupte*  
*Kosaka Best of Meeting Award Finalist - Basic Science Research*
### D25. Intraventricular Pressure Difference Assessment from Color M-Mode Image using Transesophageal Echocardiography
Koichi Akiyama, Isaac Wu, Eric J. Stöhr, Aaron Mittel, Ruiping Ji, Keiichi Itatani, Yasufumi Nakajima, Atsushi Kainuma, Teiji Sawa, Hiroo Takayama

### D26. Higher Qp/Qs Ratio Is Associated with Lower Cerebral rSO2 in Patients with Ventricular Septal Defect
Aya Banno, Tomoyuki Kanazawa, Kazuyoshi Shimizu, Tatsuo Iwasaki, Hiroshi Morimatsu

### D27. Factor VIII Inhibitor Bypass Activity (FEIBA) for the Reduction of Transfusion in Cardiac Surgery: A Randomized Double Blind Placebo Controlled Pilot Trial
Ann Bingham, Valerie Sera, Howard Song, Victor Rodriguez, Jaishankar Raman, Frederick Tibayan, Miriam Treggiari

### D28. Preoperative Radial Artery Diameter Can Help Predict Radial-To-Femoral Pressure Gradient and Vasoactive Agent Requirements
Vincent Bouchard-Dechene, Andre Denault, Alain Deschamps, Pierre Couture, Philippe Pérusse, Georges Desjardins

### D29. Post-Burn Malnutrition and Associated Cardiomyopathy
Michelle Grata, Alexis Mcquitty, Nikul Patel, Frances Brown

### D30. Correlation of Bi-Spectral Index with End-Tidal Anesthetic Concentration and Body Temperature during Off-Pump CABG
Muralidhar Kanchi, Priya Nair, Manjunath Udresh, Kumar G. Belani

### D31. Large Right Ventricular Outflow Tract Tumor: Anesthetic Management and Evaluation by Transesophageal Echocardiography
Brad P. Moore, Steven Miller

### D32. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer’s Disease Pathology
Jacob Basak, Collin J. Nadarajah, Lucy S. Cohen, Patrick W. Sheehan, Erik S. Musiek
Kosaka Best of Meeting Award Top Finalist - Scholars

### D33. Therapeutic Effects of High Molecular Weight Hyaluronic Acid in Ex Vivo Perfused Marginal Human Lungs Injured with Pseudomonas Aeruginosa
Shinji Sugita, Xiwen Zhang, Yoshifumi Naito, Li Zhou, Qi Hao, Michael Matthay, Jae Woo Lee
Kosaka Best of Meeting Award Top Finalist - Scholars

### D34. Hyperoxic Resuscitation Following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation
Gary Fiskum, Da Lee, Julie Proctor, Robert E. Rosenthal
Kosaka Best of Meeting Award Top Finalist - Basic Science Research
D35. Therapeutic Effects of Hyaluronic Acid in E. coli Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs
Jae-Woo Lee, Airan Liu, Jeonghyun Park, Xiwen Zhang, Shinji Sugita, Jaehoon Lee, Hideya Kato, Qi Hao, Michael Matthey
Kosaka Best of Meeting Award Top Finalist - Basic Science Research

D36. A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia
Dusan Hanidziar, Yasutaka Nakahori, David Gallo, Joshua Keegan, Jennifer Nguyen, Leo Otterbein, James Lederer, Simon C Robson
Kosaka Best of Meeting Award Finalist - Basic Science Research

D37. The Role of miR-147 in Acute Respiratory Distress Syndrome
Nathaniel K. Berg, Xiaoyi Yuan, Yanyu Wang, Holger K. Eltzschig

Daniel Bingham, John R. Taylor, William C. Beck, Kevin W. Sexton, Benjamin J. Davis, Avi Bhavaraju, Mary K. Kimbrough, Anna Privratsky, Ronald D. Robertson, Donald E. Crabtree

D39. Adverse Outcomes Associated with Absent or Delayed ß-Blocker Administration after Cardiac Surgery
Emily Chanan, Germaine Cuff, Samir Kendale, Aubrey Galloway, Mark Nunnally

D40. Meta-Analysis of Lipid Emulsion Therapy in Animal Models Demonstrates Pig-Dependent Bias
Michael R. Fettiplace

D41. Utilizing Surgical Embolectomy for Acute Massive Pulmonary Embolism
Adam Freilich, Jayanta Mukherji, Kimberly Burcar

D42. The Attributable Mortality from Bleeding Complications Exceeds the Attributable Mortality from Thrombotic Complications
Robert E. Freundlich, Melissa L. Bellomy, Milo Engoren, Frederick W. Lombard, Barbara J. Martin, Yaping Shi, Matthew Shotwell

D43. Magnesium Sulfate Significantly Alleviates the Development of Right Ventricular Dysfunction in Monocrotaline-Treated Rats
Chun-Jen Huang

D44. Modifiable Risk Factors of Prolonged Dependence on Vasopressors after Cardiac Surgery: A Retrospective Cohort Study
Loay Kontar, William B. Souligny, Vincent Bouchard-Dechêne, Antoine Rochon, Sylvie Levesque, Matthias Jacquet-Lagrèze, Yoan Lamarche, Denis Babin, André Denault

D45. Trends in Tracheostomy Utilization after Severe Acute Brain Injury in the United States
Vijay Krishnamoorthy, Monica S. Vavilala, Abhijit V. Lele, Karthik Raghunathan, Claire Creutzfeldt
D46. Incidence and Diagnoses of ‘Short-Stay’ Critical Care Admissions from the Emergency Department
Layne Madden, Deepa Patel, Mengyu Di, Justin Schrager

D47. Spontaneous Esophageal Rupture with Stridor after Partial Resection of the Right Lung
Yuto Matsuoka, Ryu Nakamura, Kazuyoshi Shimizu, Naoto Tomotsuka, Yohei Takano, Akira Katayama, Hiroshi Morimatsu

D48. In Hospital Mortality, Complications, and ICU Length of Stay after Ventricular Assist Device Implantation: A Single Center Case Review
Rachael Mintz-Cole, Andrea Yoder, Abdulaziz Almehlisi, Kimberly S. Robbins, Albert P. Nguyen, Ulrich Schmidt

D49. Role of Syndecan-1 and Disruption of Glycocalyx in Critically Ill Patients with Ventricular Assist Devices (VAD) and Extracorporeal Membrane Oxygenation (ECMO)
Dorothea Rosenberger, T. Mckai Wood

D50. Gut Microbiome Short-Chain Fatty Acid Levels Can Regulate Lung Inflammatory Responses in Mice
Xiaoli Tian, Judith Hellman, Arun Prakash

D51. Massive Tongue Swelling Preventing Extubation
Thanh-Giang Vu, Jeffrey Gotts

D52. Low-Cost ECMO Troubleshooting Simulation Improves Provider Confidence and Preparedness in Managing Life-Threatening Circuit Complications
Matthew Wiepking, Michael Stentz, Kiley Hodge

D53. Lipid Emulsion Containing Omega3 (N3) Fatty Acids Beneficially Affect Insulin Signaling and Glucose Uptake in the Beating Rat Heart
Michael Zaugg, Phing-How Lou, Eliana Lucchinetti, Alexander S. Clanachan

D54. Assessing the Readability of Anesthesia-Related Patient Education Materials
Raksha Bangalore, Anna Korban, Faraz Chaudhry, Jean Daniel Eloy

D55. Individualized Resident Physician Feedback Decreases Intraoperative Hypotensive Events
Sunny Chiao, Katherine Forkin, Bhiken Naik, Marcel Durieux

D56. Project Pandemic: Efficient and Effective Teamwork and Communication Skills Training using a Tabletop Game
Cullen Jackson, Cindy Ku, John D Mitchell, Vanessa Wong, Carol A Diachun

D57. Geography and Program Reputation Are Key Factors That Influence Residency Match
Jung Kim, William Kim, Germaine Cuff, Michael Wajda, James M. McKeever

D58. The Ontology of Leadership: A Simulation-Based Introduction
Annandita Kumar, Philip Boysen
D59. Representation of Women on the Editorial Board of the Canadian Journal of Anesthesia
Gianni R. Lorello, Alana Flexman

D60. Impact of Anesthesia Type on Patient Satisfaction with Anesthesia Care
Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick

D61. Economic Evaluations of Sugammadex for Reversal of Neuromuscular Block in Surgical Procedures: A Systematic Review
Amit D. Raval, Ishita Doshi, Sumesh Kachroo, Lori D. Bash

D62. Resident Physician Perspective on Women As Leaders
Karlyndsay Sitterley, Philip Boysen, Joseph Koveleskie

D63. Cognitive Resilience: Predicting a Robust Cognitive Status after Major Non-Cardiac Surgery
Christopher G. Choukalas, Christopher Tang, Laura Sands, Yueyao Wang, Sanam Tabatabai, Devon Pleasants, Jacqueline Leung

D64. Postoperative Delirium after Major Cardiac Surgery Is Associated with High Protein Levels of TIMP-1 and IL-6
Jennifer Mekonnen, Breanna Ethridge, Reine Ibala, Eunice Hahm, Jacob Gitlin, Jason Z. Qu, Oluwaseun Johnson-Akeju

D65. Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: Mortality and Functional Outcomes of the Stride Randomized Clinical Trial
Frederick Sieber, Karin Neufeld, Allan Gottschalk, George Bigelow, Esther Oh, Jean Pierre Ouanes, Naeyuh Wang

D66. Beers Criteria in the Perioperative Period: Incidence of Perioperative Diphenhydramine, Midazolam and Scopolamine Use in Elderly Surgical Patients
Audrey E. Spelde, Gurmukh Sahota, Lee A. Fleisher, Sushila Murthy

D67. The “Just Right” Amount of Oxygen: Reducing Hypoxemia and Hyperoxia in a Rwandan Emergency Department
Tori Sutherland, Victor Moriau, Lise Kabeja, Theogene Twagirumugabe, Daniel S. Talmor, Elisabeth D. Rivielo

D68. Effects of Intraoperative Fluid Management on Postoperative Acute Kidney Injury in Liver Transplantation: A Retrospective Cohort Study
François M. Carrier, Michaël Chassé, Martin Girard, Luc Massicotte, Marc Bilodeau

D69. Goal-Directed Fluid Therapy Versus Low Central Venous Pressure Strategy during Major Liver Resections (GALILEO): A Patient and Surgeon-Blinded Randomized Controlled Trial
Iris M. Jongerius, Timothy Mungroop, Zehra Uz, Bart F. Geerts, Rogier V Immink, Martin V. Rutten, Thomas M. Van Gulik, Marc G. Besselink, Markus W. Hollmann, Denise P. Veelo

D70. Hemodynamic Changes with Autologous Flushing of Donor Graft during Orthotopic Liver Transplantation
Susan A. Smith, Tim Ziethen, Gabrielle Frisenda, Dennis Sonnier, John Seal, Ari Cohen, Bobby D Nossaman
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>D71</td>
<td>The Role of Sarcopenia and Frailty in Predicting Outcomes in Orthotopic Liver Transplantation</td>
<td>Susan A. Smith, Richard Tupler, Nick Morrazzo, Ritika Johal, Gabrielle Frisenda, Bobby D. Nossaman, Elizabeth Cohen, Daniel Canter</td>
</tr>
<tr>
<td>D72</td>
<td>Peep Titration via Esophageal Balloon Monitoring in a Super Morbidly Obese Patient during a Robotic Radical Nephrectomy</td>
<td>Nicholas Alvey, Maung Hlaing, Jerome Piccoli, Janet Kukreja, Naveen Kukreja, Tim Tran</td>
</tr>
<tr>
<td>D73</td>
<td>Critical Care Management of Culture Negative Endocarditis Due to Bartonella</td>
<td>Christian S. Balabanoff Acosta, Daniela De Lima Corvino, Anmary Fernandez Betances, Rafael Arciniegas Flores, Srikar Jonna, Anna M. Schuerner, Richard A. Zack-Guasp, Ricardo Martinez Ruiz, Miguel Cobas, Alexander C. Fort</td>
</tr>
<tr>
<td>D74</td>
<td>Veno-Venous Extracorporeal Membrane Oxygenation Used to Bridge the Obtainment of an Emergent Airway</td>
<td>Christian S. Balabanoff Acosta, Ilya Shnaydman, Saskya Byerly, Rafael Arciniegas Flores, Anna M. Schuerner, Srikar Jonna, Richard A. Zack-Guasp, Arnaldo Vera-Arroyo, Jack Louro</td>
</tr>
<tr>
<td>D75</td>
<td>Successful Treatment of a Patient Who Developed Propofol-Induced Neuroexcitation with Intravenous Lipid Emulsion</td>
<td>Sylviana Barsoum, Adeline Kim, James Tse</td>
</tr>
<tr>
<td>D76</td>
<td>Use of Remifentanil for Monitored Anesthesia Care Involving a Patient with Severe Valvular Disease</td>
<td>Jennifer Davis, Stephen T. Krazit</td>
</tr>
<tr>
<td>D77</td>
<td>A Prostate for an Eye: Preventing Major Comorbidity through Careful Preoperative Evaluation</td>
<td>Derek Djavaherian, Sachin Jha</td>
</tr>
<tr>
<td>D78</td>
<td>Acute Intrathecal Opioid Pump Malfunction with No Symptoms of Withdrawal</td>
<td>Ahmed Embabi, Amr Hegazi</td>
</tr>
<tr>
<td>D79</td>
<td>Successful Multidisciplinary Anesthetic Management of a Pediatric Patient with Congenital Fiber Type Disproportion Myopathy, Congenital Scoliosis and Severely Diminished Pulmonary Function</td>
<td>Adam Forshaw, J. Matthew Kynes, John Meyer</td>
</tr>
<tr>
<td>D80</td>
<td>An Accidental Intrathecal Baclofen Overdose Resulting in Altered Mental Status and Hemodynamic Instability in a Pediatric Patient</td>
<td>Aimee Gasior Bejar</td>
</tr>
<tr>
<td>D81</td>
<td>Rapid Detection and Transport by ECMO Team Improved Outcomes of Severe Acute Pancreatitis Sequelae</td>
<td>Mariana Gomez, Natan Hekmatjah, Paul Helland, Cecilia Canales, Vadim Gudzenko, Sumit Singh</td>
</tr>
<tr>
<td>D82</td>
<td>Carcinoid Crisis Presenting As Severe Bronchospasm during Anesthetic Induction in a Pregnant Patient</td>
<td>Kyung Ji, Jennifer Macpherson, Tichaendepi Mundangepfupfu</td>
</tr>
</tbody>
</table>
D83. Anesthetic Management of Metastatic Chondrosarcoma to the Right Atrium in the Setting of a Right-To-Left Intracardiac Shunt
Daryl Kerr, Avanthi Tudor, Mary Rhee

D84. Acute Heart Failure Related to Carbon Monoxide Intoxication: A Case Report
Michael Kim, Christian Zanza, Yaroslava Longhitano, Jack Berger, Francesco Franceschi

D85. Cannabinoid Hyperemesis Syndrome in the Ambulatory Setting: A Case Report
Peter Lam, Dhamodaran Palaniappan

D86. Iatrogenic Intrahepatic Thoracostomy Tube in the Intensive Care Unit
Jeremy V. Laney, Shihab Sugeir

D87. Assessment of Hemopericardium after Transcatheter Aortic Valve Replacement
Danielle Lovett-Carter, Maurice F. Joyce

D88. Secondary Ultrasound Use in a Post-Operative Patient with Hypotension
Rebecca Martinez, Julia B. Sobol, Albert Yen, Oliver Panzer

D89. Wrong Place, Right Time: Avalon Catheter Migration and Point of Care Ultrasound
Keleigh McLaughlin, Tim Tran

D90. Myotonic Dystrophy Diagnosed by Respiratory Distress after General Anesthesia: A Case Report
Yusuke Mizobuchi, Yoshikazu Matsuoka, Makiko Tani, Kazuyoshi Shimizu, Motomu Kobayashi, Hiroshi Morimatsu

D91. Regional Anesthesia Considerations for a Multigravid Patient with Pectus Excavatum Undergoing Elective Repeat Cesarean Section
John D. Ngo, Rovnat Babazade

Elizabeth O’Brien, Matthew Hoyt, Michael Baker

D93. Anesthetic Management in the Resection of Giant Retroperitoneal Liposarcoma
Ergit Paparisto, Peter Roffey

D94. A Rare Case of Plastic Bronchitis in an Adult Patient: Anesthetic Challenge
Yangseon Park, Max B. Kelz

D95. Rare Complication of “Denver” Peritoneovenous Shunt, Clinically Reminiscent of Anaphylactoid Syndrome of Pregnancy
Rishi Patel, Sergio B. Navarrete, Michael Fowler, Ronsard Daniel

D96. Mast Cell Activation Syndrome in a Patient Undergoing Arthroscopic Repair of an Unstable Left Shoulder
Takashi Sakano, Bahaa Daoud, Jennifer Danielsson
<table>
<thead>
<tr>
<th>D97. Spontaneous Hemopericardium with Fatal Tamponade Physiology in ESRD Patient on Warfarin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melina Shoni, Gerardo Rodriguez</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D98. Patient Behavior in PACU after Uneventful EDG: This Seems Odd!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul A. Sloan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D99. Emergency Anesthetic Considerations of a Patient with Stiff Person Syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa To</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D100. Dexmedetomidine Use in a Patient with a History of Acute Intermittent Porphyria Undergoing Abdominal Resection of a Neuroendocrine Tumor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bradley Withers, Annette Rebel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D101. A Rare Case of Repeated Interventions for Idiopathic Congenital Mitral Valve Stenosis: A Case Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tsubasa Yoshida, Hiroki Omiya, Kenji Uehara, Waso Fujinaka, Makoto Takatori</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D102. Hemoconcentration as an Indicator of Intraoperative Superior Mesenteric Vein Stenosis during Pancreaticoduodenectomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masha Zeltsman, Madina Gerasimov, Judith Aronsohn, Jeffrey Deygoo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D103. GFAP Expression in the Visual Cortex Is Increased in Juvenile Non-Human Primates That Were Exposed to Anesthesia during Infancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viola Neudecker, Jose F. Perez-Zoghbi, Marjorie Grafe, Ansgar Brambrink</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D104. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas Bunning, Heather E. Whitson, Kent Weinhold, Marty G. Woldorff, Eugene Moretti, Deborah Oyeyemi, Mary Cooter, Cliburn Chan, Roberto Cabeza, Jeffrey N. Browndyke, David Murdoch, Michael Devinney, Leslie Shaw, Harvey J. Cohen, Joseph P. Mathew, Miles Berger</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D105. The Left Angular Gyrus and Dorsal Anterior Cingulate Cortex: Key Regions for Pre-Post Operative Functional Resting State Decline?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheshire Hardcastle, Hua Huang, Jared J. Tanner, Hari K. Parvataneni, Mingzhou Ding, Catherine Price</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D106. Imaging Cortical Activity during General Anesthesia: Insights into Cortical Pain Processing in Mice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jarret Weinrich, Allan Basbaum, Mollie Bernstein</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D107. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through An α2A Adrenoceptor Mechanism in Mice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mervyn Maze, Rong N. Li, Kit I Lai</td>
</tr>
</tbody>
</table>

Kosaka Best of Meeting Award Top Finalist - Basic Science Research
Kosaka Best of Meeting Award Finalist - Scholars
Kosaka Best of Meeting Award Finalist - Basic Science Research
Kosaka Best of Meeting Award Finalist - Scholars
D108. Central Venous Catheter Placement Has No Impact on Venous Air Embolism Severity, Duration or Morbidity in Seated Cervical Laminate Patients
Amoley Abcejo, Jeffrey J. Pasternak, Jamie J. Van Gompel, John Atkinson, William J. Perkins

D109. A Novel Evoked Two EEG Complementary Indices for Identifying Stroke and Evaluating the Potential for Salvageable Brain Tissue in Patients Under Anesthesia
Dana Baron Shahaf, Gregory Hare, Eitan Abergel, Rotem Sivan-Hofman, Goded Shahaf

D110. Considerations for Individuals with Parkinson’s Disease: Basal Nucleus of Meynert Resting State Connectivity Associates with Executive Deficits
Sam J. Crowley, Katie Rodriguez, Jared J. Tanner, Mingzhou Ding, Catherine Price

D111. Intraoperative Electroencephalogram Suppression Mediates the Relationship Between a Preoperative “Vulnerable Brain” Phenotype and Postoperative Delirium
Bradley A. Fritz, Christopher R. King, Nan Lin, Arbi Ben Abdallah, Michael Avidan

D112. Low Alpha Power from Electroencephalographic Activity Is Associated with the Development of Acute Confusional State
Rodrigo Gutiérrez, Jose Ignacio Egana, Ivan Saez, Fernando Reyes, Constanza Briceno, Mariana Venegas, Isidora Lavado, Antonello Penna

D113. Mind the Gap: Using the Electroencephalogram (EEG) to Uncover Potential Emergence during Cardiac Surgery
Darren F. Hight, Markus M. Luedi, David Reineke, Balthasar Eberle, Heiko Kaiser

D114. Correlation Between Cognitive Deficits and Amyloid-Load Independent of Sex or Anesthesia in a Mouse Model of Alzheimer’s Disease
Christoph Pötzl, Laura C. Preis, Sebastian Schmid, Manfred Blobner, Gerhard Schneider, Bettina Jungwirth

D115. Isoflurane and Xenon Reserve the Effect of Aβ1-42 on MEGF10-Dependent Synapse Elimination by Astrocyte
Gerhard Rammes, Dai Shi, Tatjana Neumüller, Francisca Seeser, Kaichuan Zhu, Jochen Herms

D116. Dexmedetomidine Causes Age-Dependent Differences in the EEG Compared to NREM Sleep in B6 Mice
Morgan Siegmann, Daniel Zachs, Jonathan Kenny, Mohsen Hozan, Matthew Wilson, Emery N. Brown, Christa J. Van Dort

D117. Ventilator Mode Does Not Influence Blood Loss or Transfusion Requirements during Major Spine Surgery: A Retrospective Study
Priyanka Singla, Davis G. Taylor, Ching-Jen Chen, Lucas Fernandez, Christopher Wiedle, Mark Hanak, Siny Tsang, Edward C. Nemergut, Marcel Durieux, Randal Blank, Bhiken Naik, Lauren K. Dunn

D118. Evaluation of the Effect of Implementation of Enhanced Recovery after Surgery Program in Spinal Surgical Procedures (MSDRG S454 and S455): A Retrospective Study
D119. The Lower Limits of Neonatal Cerebral Autoregulation during Congenital Cardiac Surgery  
Eric L. Vu, Brendan L. Smith, Craig G. Rusin, R. B. Easley, Dean Andropoulos, Ken M. Brady

D120. Understanding Functional Connectivity Contributions to Digital Cognitive Pre-Operative Screening Tests: The Digital Maze (dMaze)  
Margaret Wiggins, Catherine Dion, Cheshire Hardcastle, Hua Huang, Jared J. Tanner, Penney Dana, Randall Davis, Mingzhou Ding, Catherine Price

D121. Contingency Planning to Overcome Critical Shortages of Hyperbaric Bupivacaine for Obstetric Anesthesia Care  
Laurence Ring, Xiwen Zhang, Beatriz Raposo Corradini, Ruth Landau  
Kosaka Best of Meeting Award Finalist - Clinical Research

D122. Acute Pulmonary Edema in a Pregnant Patient with Moyamoya Disease and Undiagnosed Mitral Regurgitation Induced by Emotional Distress  
Indranil Chakraborty, Priya Gupta, Andrew Wright

D123. A Prospective Randomized Comparison of Low Dose Ropivacaine Programmed Intermittent Epidural Bolus with Continuous Epidural Infusion for Labour Analgesia  
Alexander Ioscovich, Yana Guseva, Oksana Ryazanova, Stanislav Aleksandrovich

D124. Genetic Associations of Perinatal Pain and Depression  
Grace Lim, Lora Mcclain, Lia M. Farrell, Kelsea Lasorda, David Peters

D125. Usage of ‘Big-Data’ Analysis for Choosing the Optimal Timing of Epidural Analgesia in Primi and Multiparae in a Retrospective Electronic Medical Record (EMR) Based Study  
Eshel A. Nir, Michal Lipschuetz, Sarah M Cohen, Joshua Guedalia, Ron Unger, Simcha Yagel

D126. The Epigenetic Mechanism of Chronic Nicotine in Pain Perception in an Animal Model  
Keith Candiotti, Yanping Zhang, Alec Sevilla, Robert Weller, Yiliam F. Rodriguez Blanco

D127. Biased Properties Observed with Opioid Reward and Relapse in the Presence of Incisional Injury in Mice  
Chinwe Nwaneshiudu, Xiao You Shi, David Clark

D128. Opioid Therapy Algorithm for Chronic Non-Cancer Pain Based on APS, AAPM, CDC, ASA and ASRA Guidelines and Position Statements  
Ethan L. Chambers, Jason Lefkof, Akwasi Amponsah, Konstantinos D Sarantopoulous  
Kosaka Best of Meeting Award Top Finalist - Clinical Research

D129. An Earlier Educational Intervention in Residents Improves Knowledge of Non-Opioid Acute Pain Management in the In-Patient Hospital Setting  
Harpreet Dhiman, Jennifer Knuth, Melissa Ehlers, Anthony Ocon, Yi Zhou, Henry Nagle, Ravneet Bhullar

D130. Association Between Preoperative Opioid and Benzodiazepine Use and Postoperative Outcomes in Joint Arthroplasty  
Lisa Doan, Kristoffer Padjen, Adam Gover, Jawad Rashid, Bijan Osmani, Shirley Avraham, Samir Kendale
<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D131</td>
<td>Postoperative Motivational Interviewing Based Opioid Tapering to Promote Opioid Cessation in Adults Undergoing Orthopedic Surgery: A Randomized Clinical Trial</td>
<td>Jennifer Hah, Partha Krishnamurthy, Heather Hilmoe, Ian Carroll, Sean Mackey</td>
</tr>
<tr>
<td>D132</td>
<td>Effect of Catechol-O-Methyltransferase (rs4680) Single Nucleotide Polymorphism on Opioid Induced Hyperalgesia in Adults with Chronic Pain</td>
<td>Danqing Hu</td>
</tr>
<tr>
<td>D133</td>
<td>Effect of Fentanyl Infusion on Postoperative Pain in Patients after Craniotomy</td>
<td>Yuki Ishii, Yuichiro Toda, Sena Hara, Hideki Nakatsuka</td>
</tr>
<tr>
<td>D134</td>
<td>Association and Predictors of Opioid Discontinuation after Surgery Among Chronic Opioid Users in Ontario</td>
<td>Naheed Jivraj, Damon Scales, Tara Gomes, Jennifer Bethell, Andrea D. Hill, Ruxandra Pinto, Duminda N. Wijeysundera, Hannah M. Wunsch</td>
</tr>
<tr>
<td>D135</td>
<td>Social Isolation Stress Prevents Norepinephrine-Mediated Inhibition of TRPV1 Activation in Mouse Sensory Neurons</td>
<td>Loc V. Thang, Ream Al-Hasani, Jordan G. Mccall</td>
</tr>
<tr>
<td>D136</td>
<td>Sustaining the Gains: A 6 Year Follow through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes</td>
<td>Ming Ann Sim, Lian Kah Ti, Sandhya Mujumdar, Sophia Chew, Mohan Kumar Bhuvaneshwari, Sophia Ang Kosaka</td>
</tr>
<tr>
<td>D137</td>
<td>Patient-Reported In-Hospital Complications and Self-Reported Cognitive Function 1-Year after Surgery</td>
<td>Thomas G. Kannampallil, Amrita Aranake-Chrisinger, Noor Al-Hammadi, Michael Avidan Kosaka</td>
</tr>
<tr>
<td>D139</td>
<td>Improving Adherence to Intraoperative Administration of Surgical Antimicrobial Prophylaxis: A Single Center Experience</td>
<td>Victoria Haney, Stephan Maman, Jansie Prozesky, Kunal Karamchandani</td>
</tr>
<tr>
<td>D140</td>
<td>Comparing the Incidence of Low Minute Ventilation, Low Tidal Volume and Low Respiratory Rate on the General Hospital Floor</td>
<td>Alparslan Turan, Hani Essber, Barak Cohen, David Chelnick, Jasmin Imsirovic, Wael Saasouh</td>
</tr>
<tr>
<td>D141</td>
<td>The Use of the Federal Aviation Administration’s Crew Resource Management Techniques to Identify Hazardous Attitudes in Crew Resource Management Among Anesthesiology and Surgery Residents</td>
<td>Christina R. Miller, Adam Schiavi, Robert S. Greenberg</td>
</tr>
</tbody>
</table>
D142. Risk Factors for Acute Kidney Injury after Primary Total Correction of Coarctation of the Aorta (COA) and Transposition of the Great Arteries (TGA) in Infants: A Retrospective Cohort Study
Sooyoung Kim, Minjeong Jang, Jihion Yu, In-Kyung Song, Jae Moon Choi, Won-Jung Shin, Mijeung Gwak
Kosaka Best of Meeting Award Finalist - Scholars

D143. To Tube or Not to Tube: Laryngeal Mask Airway vs Endotracheal Tube for Airway Management During General Anesthesia in Severely Obese Children
Sung Choi, Olubukola O Nafiu

D144. Safety of Prophylactic Antifibrinolytics in Children Undergoing Spinal Fusion
Lisa Eisler, Minjae Kim, Lena Sun, David Faraoni

D145. Are Pediatric Patients with Phace Syndrome at High Risk for Anesthetic Complications?
Brett Escarza, Susana Cruz Beltran, Humphrey Lam, Thomas M. Austin

D146. Identifying Unnecessary Blood Transfusions in Patients Undergoing Craniofacial Surgery using National Craniosynostosis Registry Dataset
Allison M. Fernandez, Lillian Zamora, Ali Jalali, Luis Ahumada, Jim Fackler, Mohamed Rehman

D147. Preventing Spinal Cord Injury & Infarction in Patients with Mucopolysaccharidosis during Non-Spine Surgery
Jonathan Halem, Mary C. Theroux, William G. Mackenzie, Phoebe Fisher, Anthony Dinardo

D148. A Neonatal Cardiac Arrest: What Could Be Happening?
Adnan R. Khan, Ana Crnkovic, Melissa Ehlers

D149. Adenotonsillectomies in Pediatric Patients with Severe Obstructive Sleep Apnea
Makoto Nagoshi, Connie Mun-Price, Kathleen Than, Brandon Engorn, Patrick Ross

D150. Unanticipated Admissions during the Perioperative Period: Summary of Data from the Wake Up Safe
Thanh Nguyen, Amanda Lorinc, Humphrey Lam, Thomas M. Austin

D151. Intranasal Insulin Prevents Anesthesia-Induced Cognitive Impairment in Juvenile Mice
Patricia Roque, Tamaki Sato, Yosuke Nakadate, Hiroaki Sato, Shelly Yin, Mehdi Hooshmandi, Linda Wykes, Arkady Khoutorsky

D152. Temporal Changes in the Frequency of Intraoperative Hypotension in Children
Jonathan A. Sohn, Bishr Haydar, Aleda Thompson, Shobha Malviya, Olubukola O Nafiu

D153. Prevention of ‘Emergence Agitation’ with Propofol or Fentanyl in Children Undergoing Below Umbilical Surgeries Under Sevoflurane Anaesthesia
Sangeet Tanwar, Sunil K Sinha

D154. The Electroencephalographic Signature of Spinal Anesthesia in Infants: A Multi-Center Pilot Study
Emmett Whitaker, Jerry Y. Chao, Elissa Yozawitz, Alan Legatt, Gregory L. Holmes, Robert Williams
D155. Functional Near-Infrared Spectroscopy (fNIRS) during Newborn Circumcisions: A Pilot Study
Ian Yuan, Arjunan Ganesh, Olivia Nelson, Kurtulus Izzetoglu, Bingqing Zhang, Janell Mensinger, William Landis

D156. Intravenous Cannula Placement in Children in the Operating Room for Induction of General Anesthesia: Prospective Audit and Identification of Success Factors
Matthias Görges, Celine Hügel, Andrew Poznikoff, James C. Chen, Eleanor J. Reimer

D157. Preoperative Gabapentinoids Increase Risk of Postoperative Opioid-Related Respiratory Depression in Adult Patients Undergoing Total Hip and Knee Arthroplasties
Sean Moore, Tetsu Ohnuma, Karthik Raghunathan, John Whittle, Raquel R. Bartz, Srinivas Pyati, Alan Ellis, William E. Bryan, Marc Pepin, Vijay Krishnamoorthy
Kosaka Best of Meeting Award Finalist - Scholars

D158. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis
Dustin R. Long, Jeannie Chan, Chloe Bryson-Cahn, John Lynch
Kosaka Best of Meeting Award Finalist - Clinical Research

D159. Effects of Acetaminophen, Nsaids, Gabapentinoids and Their Combinations on the Day of Surgery in Total Hip and Knee Arthroplasties
Tetsu Ohnuma, Karthik Raghunathan, Alan Ellis, John Whittle, Srinivas Pyati, William E Bryan, Marc Pepin, Raquel R. Bartz, Vijay Krishnamoorthy
Kosaka Best of Meeting Award Finalist - Clinical Research

D160. The Impact of Nutraceutical Pre-Habilitation and Postoperative Treatment with Eicosapentanoic Acid (EPA) and Acetylsalicylic Acid on a Novel Animal Model of Recovery after Surgery
Juan Cata, Miguel Patino Montoya, Michael Lacagnina, Ruben Agudelo-Jimenez, Imad Shureiqi, Carin Hagberg, Peter Grace
Kosaka Best of Meeting Award Finalist - Basic Science Research

D161. Deep Immune Profile of Preoperative Glucocorticoid Administration in Patients Undergoing Surgery
Brice Gaudilliere, Edward A. Ganio, Natalie Stanley, Jakob Einhaus, Amy S. Tsai, Anthony Culos, Kristen Rumer, Ramin Fallahzadeh, Viktoria Lindberg-Larsen, Henrik Kehlet, Martin S. Angst, Nima Aghaeepour
Kosaka Best of Meeting Award Finalist - Basic Science Research

D162. Identification of Optimal Anesthetic Depth with Sevoflurane using Different Stimuli for a Movement Free Intravenous Cannulation in Children
Hassan H Al-Salmi, Nikhil Gosalia, Rashid M. Khan, Naresh K. Kaul

D163. Understanding Provider Variability in the Use of Neuromuscular Blocking Agents
Friederike C. Althoff, Denys Shaydenfish, Maria Silva Dias Santos Patrocinio, Xinling Xu, Timothy Houle, Matthias Eikermann

D164. Incidence of Persistent Opioid Use in Children after Surgery
Thomas A. Anderson, Andrew T. Ward, Beth De Souza, Ellen Wang, Daniel Miller, Nicholas Bambos
D165. Intraoperative Awareness with Explicit Recall: A Patient Centered Survey-Based Cohort Study
Anna Maria Bombardieri, Troy Wildes, Shagun Mathur, Andrea Soares, Anshuman Sharma, Michael Avidan

D166. Systematic Review of Cognitive Screening Tests to Predict Postoperative Delirium
Maria Garstka, Enoch Lam, Farrah A. Ayob, George Ho, Frances F. Chung, Jean Wong

D167. Quality of Recovery in Patients with Pancreatic or Common Bile Duct Cancer Receiving Curative Surgery: Comparison with TIVA and Inhalation Anesthesia using QOR-40 Questionnaire
Young Eun Joe, Chang Moo Kang, Jeong Rim Lee

D168. Intraoperative Analgesia Patterns at an Academic Tertiary Medical Center during the 2018 Parenteral Opioid Shortage
Richard K. Kim, Cliff Schmiesing

D169. Serum Fructosamine Versus Hemoglobin A1C for Glycemic Control in Diabetic Patients Undergoing Surgery
Ana C. Mavarez-Martinez, Nicoleta Stoicea, Alicia Gonzalez-Zacarias, January K. Kim, Barbara Rogers

D170. Laparoscopic Specimen Bags Study
Asha Mohammed, Matthew Molyneux

D171. A Perioperative Education Intervention Designed to Reduce Cost and Turnover to Surgeon Time
William P. Murphy, Amanda J. Williams, Prem Darji, William L. Johns, Jan Pasnak

D172. Reducing Costs by Eliminating Unnecessary Preoperative Urine Cultures
Sher-Lu Pai, Joan Irizarry-Alvarado, Daniela A. Haehn, Wendelyn Bosch, Walter C. Hellinger

D173. A Pilot Feasibility Trial of Physical and Cognitive Prehabilitation to Improve Outcomes in Surgical Patients
Kimberly Rengel, Nitin Mehdiratta, Susan Vanston, Kristin Swygert, Jim Jackson, Pratik Pandharipande, Christopher G. Hughes

D174. Post-Operative Oral Oxycodone and Hydromorphone: A Comparison of Opioid Consumption and Side Effects
Emily Spence, Richard Brull, Faraj Abdallah

D175. Comparison of Sugammadex and Neostigmine for Reversal of Rocuronium Neuromuscular Blockade on the Incidence of Postoperative Pulmonary Complications: A Randomized Controlled Trial
Brandon M. Togioka, N. David Yanez, Michael Aziz, Janna R. Higgins, Miriam Treggiari

D176. Perioperative Multimodal Analgesic Regimens Decrease Hospital Length of Stay and Expedite Recovery Following Spinal Fusion Surgery
Andrew Vargas, Lee-Lynn Chen, Solmaz P. Manuel, Jeremy Lieberman
D177. Association Between Postoperative Myocardial Injury Phenotypes and Disability-Free-Survival in Patients Undergoing Non-Cardiac Surgery

D178. Gabapentinoids on the Day of Colorectal Surgery Are Associated with Adverse Postoperative Respiratory Outcomes
Rosalie Yan, Tetsu Ohnuma, Vijay Krishnamoorthy, Alan Ellis, Neil Ray, John Hsia, Srinivas Pyati, Mihaela Stefan, William E. Bryan, Marc Pepin, Peter Lindauer, Raquel R. Bartz, Karthik Raghunathan

D179. The Transversus Thoracic Plane (TTP) Block: A Pooled Review of 748 Cases
Kevin W. Chung, Ying Ye, Garrett W Burnett, Christina L. Jeng

D180. Continuous Iliohypogastric Nerve Catheter Infusions for Postoperative Analgesia Following Bladder Augmentation in a Child with Goldenhar Syndrome
Chris Denny, Sarah Hall

D181. Comparison of the Image Quality of 8 Different Ultrasound Machines for Axillary and Intercalane Nerve Blocks
Francis Remerand, Quentin Belot, Brice Fermier, Marc Laffon

D182. Title Pending
Suresh K. Singhal, Subhadarsini Choudhury, Kiran Preet

D183. Deliberate Intraneural Injection: Where Does It Spread and How
Cameron Smith, Olga Nin, Richa Wardhan, Xavier Sala-Blanch, Miguel A Reina, Andre P. Boezaart

D184. Discovery of a Antero-Laminar Fibrous Body That May Possibly Anchor Dura to the Lamina
Cameron Smith, Andre P. Boezaart, Alberto Prats-Galino, Barys Ihnatsenka, Olga Nin, Anna Server, Miguel A. Reina

D185. The Use of Pterygopalatine Ganglion Block for Positional Headache and Nausea Secondary to Iatrogenic CSF Leak
Cameron Smith, Erik M. Helander, Andre P. Boezaart

D186. Risk of Major Cardiovascular Complications after Elective Surgery in Patients with Sleep Disordered Breathing
Rabail Chaudhry, Colin Suen, Talha Mubashir, Jean Wong, Clodagh Ryan, Frances F. Chung

D187. Sleep Disordered Breathing as an Independent Risk Factor for Post-Operative Delirium in Elective Surgical Procedures
Rabail Chaudhry, Enoch Lam, Greeshad Padnekar, Talha Mubashir, Frances F. Chung, Jean Wong

D188. The SANDMAN Study: Sleep Apnea, Neuroinflammation, and Cognitive Dysfunction Manifesting after Non-Cardiac Surgery
Michael Devinney, Andrew R. Spector, Jeffrey N. Browndyke, Patrick J. Smith, Jennifer Dominguez, Thomas Bunning, Mary Cooter, Joseph P. Mathew, Miles Berger
D189. Obstructive Sleep Apnea Does Not Predispose to Postoperative Delirium: A Retrospective EHR Based Analysis  
Christopher R. King, Bradley A. Fritz, Krisztina Escallier, Michael Avidan

D190. Prevalence of Sleep Disordered Breathing in Chronic Non-Cancer Pain Patients on Opioid Therapy: A Systematic Review and Network Meta-Analysis  
Mahesh Nagappa, Jean Wong, Frances F. Chung, Talha Mubashir, Nilufar Esfahanian, Joseph M. Botros, Clodagh Ryan

D191. Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-Specific Patterns of Intraoperative Hypotension Exposure  
Michael P. Schnetz, Pritika Dasgupta, Douglas Landsittel, Harry Hochheiser, Keith M. Vogt, James W. Ibinson, Steven Whitehurst, Aman Mahajan, David Danks, Ata M. Kaynar  
Kosaka Best of Meeting Award Top Finalist - Scholars

D192. The Effect of Low Dose Intra-Operative Ketamine on Closed-Loop Controlled General Anesthesia: A Randomized Controlled Equivalence Trial  
Kosaka Best of Meeting Award Finalist - Clinical Research

D193. Poiseuille’s Law Demonstration to Compare Flow Rates with Commonly Used Vascular Catheters and IV Tubing Accessories  
Christina R. Miller, David Berman, Steven M. Frank, Adam Schiavi, Shirley Duarte  
Kosaka Best of Meeting Award Finalist - Clinical Research

D194. Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study  
Seshadri Mudumbai, Fan Wu, Justin Chambers, Aditi Kapoor, Jennifer S. Lee, David Clark, Edward R. Mariano, Randall S. Stafford  
Kosaka Best of Meeting Award Finalist - Clinical Research

D195. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education  
Scott M. Pappada, Mohammad H. Owais, Cristina Alvarado, Jeffrey Schneiderman, Douglas Brunner, Andrew Casabianca, James Hofmann, Thomas J. Papadimos  
Kosaka Best of Meeting Award Finalist - Basic Science Research

D196. Cardiac Index Measurement by Pulmonary Artery Catheter, Arterial Waveform Analysis and Impedance Cardiography during Liver Transplantation  
Mingi Ban, Bon-Nyeo Koo

D197. An Intraoperative Clinical Decision Support Tool Optimizes Post-Operative Glucose Levels in Diabetic Patients  
Chelsie J. Dietz, Robert E. Freundlich, Gen Li, Jonathan Wanderer

D198. Different Responses of Healthy Humans Subjected to Lower Body Negative Pressure Induced Hypovolemia using Continuous Noninvasive Arterial Pressure Cycle Duration and Heart Rate  
Anna-Maria E. Eid, Aymen Alian, Kirk Shelley, Mohamed Elgamal, Mohamed Eid
D199. The Analysis of Pediatric EEG using Poincaré Plot after a Fast Fourier Transformation Under Sevoflurane Anesthesia
Kazuma Hayase, Teiji Sawa

D200. Hemodynamic Compensation during Selective Fetoscopic Laser Photocoagulation using the Compensatory Reserve Index
David Leopold, Ryan Phillips, Cristina Wood, Nicholas Behrendt, Michael Zaretsky, Henry Galan, Steven Moulton

D201. Accuracy of Spectrophotometric Hemoglobin Monitoring with Digital Nerve Block
Babak Mostafazadeh Davani, Reza Shariat Moharari, Pejman Pourfakhr, Farhad Etezadi, Mohammad Reza Khajavi, Atabak Najafi

D202. Predicting ASA Scores using Machine Learning
John F. Pearson, Priya Ramaswamy, Dana Raub, Peter Santer, Matthias Eikermann

D203. Prediction of Intraoperative Hypotension: Logistic Regression vs Deep Learning Methods
Soo Bin Yoon, Hyung-Been Yhim, Hyung-Chul Lee, Min Hur, Chul-Woo Jung

D204. Regulation of Microtubule Dynamics in the HKSA-Induced Endothelial Barrier Dysfunction
Boyoung Cha, Junghyun Kim, Chenou Zhang, Konstantin Birukov, Anna Birukova

D205. Airway Management by Anesthesiologists at Level-1 Trauma Center in the Era of Video Laryngoscopy
Roman Dudaryk, Jack Louro, Richard Dutton, Yvette Rodriguez, Richard H. Epstein

D206. Efficacy of Tranexamic Acid Infusion in Experimental Trauma/Hemorrhagic Shock Is Dependent on Blood
Erik B. Kistler, Fernando Dos Santos, Joyce B. Li, Federico Aletti

D207. Etomidate Is Less Frequently Used for Rapid Sequence Intubation in Pediatric Trauma Patients
Jack Louro, Paul Elias, Neil H. Masters, Roman Dudaryk

D208. A Retrospective Review of Electrolyte Repletion during Massive Transfusion Protocol at a Level One Trauma Center
Christopher Potestio, Akhil Patel, Xiaolu Xu, Nadder Azzam, Talia K Ben-Jacob

D209. Decreased Thrombin Inhibition with Hypothermia As Measured by Calibrated Automated Thrombography (CAT)
Roman Sniecinski, Fania Szlam, Alexander Y. Mitrophanov, Jaques Reifman
E1. Comparison of Neck Circumference to Thyromental Distance Ratio with Modified Mallampati Score for Prediction of Difficult Intubation in Obese Patients
Amreen M. Awan

E2. Difficult Airway in Acromegaly Patient
Jin Chen, Risa Wolk

E3. Doubling the Dose of Ketamine in Combination of Ketamine+ Dexmedetomidine Provides Lesser Discomfort and Recall of Procedure after Fiber-Optic Intubation
Satish Dhashmana, Arun Kumar, Sateesh Verma, Tanmay Tiwari

E4. A Modified Infant Face Mask Provided Nasal CPAP/PCV to Maintain Oxygenation in a Morbidly Obese OSA Patient with Advanced Lung Cancer during Outpatient FOB Resection of Endobronchial Tumor Under MAC
Cara Esser, James Tse, Sylviana Barsoum, Hosana Tordecilla

E5. The Safety and Efficacy of Laryngeal Mask Airway Insertion in Prone Position
Fatemeh Hajimohamadi, Afshar Etemadi-Aleagha, Mehrdad Behzadi, Abolghasem Yoosofi, Arash Jafarieh, Nader Ali Nazemian Yazdi, Hamed Abdollahi, Nahid Azimi, Mina Abdolahi

E6. Effects of Histones on Endothelial Barrier Function and Vascular Permeability of the Lungs
Yunbo Ke, Junghyun Kim, Ramasubramanian Baalachandran, Yue Li, Anna Birukova, Konstantin Birukov

E7. An Airway Management Tool for General Anesthesia during Caesarean
Andrew King, Kirbie D Broughton, Hussam Ghabra, Allison Clark, Philip Boysen, Bobby D Nossaman

E8. A Randomized Controlled Trial Comparing the Clinical Performance of Laryngeal Masks in Young Pediatric Patients
Wonuk Koh, Ha-Jung Kim, Hee-Sun Park, Young Jin Ro, Hong-Seuk Yang

E9. Effect of Endotracheal Tube Lubrication on Cuff Pressure Increase during General Anesthesia using Nitrous Oxide: A Prospective Randomized Controlled Trial
Yukihide Koyama, Tomio Andoh

E10. Best Practices in Endotracheal Intubation for Pediatric Patients with Difficult Airway Due Micrognathia
Vera A. Sergeeva, Natalia Jimenez, Agnes Hunyady

E11. Evaluation of Patient Comfort Score and Recall of Procedure during Retrograde Intubation with Two Different Doses of Dexmedetomidine Infusion
Tanmay Tiwari, Ashish Walian, Satish Dhashmana

Yuri Tsuchiya, Chiara Sonnino, Tomoko Fukada, Hiroko Iwakiri, Akiko Zaitsu, Makoto Ozaki, Minoru Nomura
E13. Insertion Pressure Necessary for Inadvertent Endotracheal Placement of a Gastric Tube in a Simulated, Intubated Trachea
David Wallace, Kevin Blaine

E14. Does the Use of Intravenous Patient Controlled Analgesia (IPCA) Increase Opioid Consumption and Side Effects in Fast Track Orthopedic Procedures?
Sameh M. Abdelghany, Zeev Friedman, David Backstein, Jaclyn Ricci, Xiang Y. Ye, Naveed Siddiqui

E15. Average Opioid Consumption and Pain Scores during First Postoperative Week after Outpatient Orthopedic Surgery
Sunny Chiao, Ashley Shilling, Pushpaben Rathod

E16. High Rates of Postoperative Opioid Overprescription Following Minimally Invasive Ambulatory Surgery
Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

E17. Outcomes in Outpatient vs Inpatient Laparoscopic Hysterectomy: Is It the Type of Setting or the Patient Characteristics That Matters?
Eric Rosero, Girish P. Joshi

E18. Long-Lasting Sensory Blockade Produced by Quaternary Lidocaine Derivatives: A Preclinical Study on the Comparative Efficacy and Safety of QX-314, QX-572, and QX-222 in Mice
Desmond H. Fung, Hye Y. Kim, Bernard A. Macleod, Ernest Puil, Stephan K. Schwarz

E19. Effects of Propofol and Its Components on Neutrophils Migration and Macrophages Obtained from Lung and Adipose Tissue of Obese Rats: An in Vitro Study
Luciana B. Heil, Fernanda F. Cruz, Mariana Antunes, Cassia Lisboa, Lais Agra, Rebecca Bose, Soraia Abreu, Paolo Pelosi, Pedro L. Silva, Patricia R. Rocco

E20. A Sevoflurane Binding Site in Ryanodine Receptor 1
Thomas T. Joseph, Grace Brannigan, Roderic G. Eckenhoff, Kellie Woll

E21. Nonlinear Pharmacokinetic Behavior of High Dose Propofol in Swine
Tae Kyun Kim, Ken Johnson, Talmage D. Egan, Nathan Pace, Olinto Linares-Perdomo, Greg Peterson

E22. Sevoflurane Enhances Inhibitory and Reduces Excitatory Inputs to Cortical Layer IV Neurons in the Thalamocortical Network of Murine Brain Slices
Claudia Kopp, Gerhard Schneider, Matthias Kreuzer, Rainer Haseneder, Stephan A. Kratzer

E23. Prospective Evaluation of a Protocol for Rocuronium Block and Neostigmine or Sugammadex Reversal
Timothy N. Kruse, Tinny Liang, Sanjay Bhananker, Kevin Cain, Miriam Treggiari, Stephan Thilen

E24. GABA_A Receptor Actions of ABP-700 and Its Carboxylic Acid Metabolite CPM-Acid: Implications for Toxicological Studies and Clinical Development
Megan McGrath, Beartrijs Valk, Douglas E. Raines
E25. Reasons Selected to Transfuse Outside Laboratory Test-Based Guidelines in Whole Hospital and Cardiac Surgery Cohorts
Connie W. Chaudhary, Charlie Slowey, Tymoteusz Kajstura, Mereze Visagie, Brad Winters, Promise Ariyo, Steven M. Frank

E26. Efficacy and Safety of e-Aminocaproic Acid in Open and Minimally Invasive Cardiac Surgery
Marta Kelava, Anand Mehta, Shiva Sale, Lucy Thuita, Douglas Johnston, Marc Gillinov, Eugene H. Blackstone

E27. Massive Transfusion in Lung Transplantation: Association Between Ratio of Fresh Frozen Plasma to Packed Red Blood Cells and Survival
Johannes Menger, Dieter Adelmann, Stefan Koch, Peter Jaksch, Martin Dworschak

Obianuju Okocha, Hardik Dand, Michael J. Avram, Bobbie Jean Sweitzer

E29. 4-Factor Prothrombin Complex Concentrate Administration Does Not Alter the Amount of Fresh Frozen Plasma Transfused in a 24-Hour Period
Paul Pokrandt, Sammie Roberts, Milo Engoren, Elizabeth S. Jewell, Mary Berg, Michael Maile

E30. RBC Transfusion Prescribing Trends by Provider Type in an ICU Setting Pre: And Post-Epic Implementation
Charlie Slowey, Connie W. Chaudhary, Tymoteusz Kajstura, Mereze Visagie, Steven M. Frank

E31. Reducing Unnecessary Preoperative Blood Orders and Associated Costs for Open and Robotic Radical Prostatectomy
Mereze Visagie, Natasha Gupta, Tymoteusz Kajstura, Trinity Bivalacqua, Steven M. Frank

E32. Continuous Erector Spinae Plane Block Facilitates Opioid Sparing after CATS Surgery: A Case Series
Rebecca Anderson, Rebecca Y. Klinger, Thomas D’Amico

E33. Effect of Low Dose 6% Hydroxyethyl Starch (130/0.4) and Renal Function in Cardiac Surgical Patients
Muralidhar Kanchi, Mohana Murali, Manjunath Udresh, Kumar G. Belani

E34. Severe Cardiac Clot Burden in Pulmonary Embolism: Evaluation by Transesophageal Echocardiography
Brad P. Moore, Isaac Wu

E35. Encephalography Guidance of Anesthesia to Alleviate Geriatric Syndromes (ENGAGES-CANADA) Study in Cardiac Surgery Patients: A Pragmatic, Randomized Clinical Trial
Jennifer Palermo, Charles Overbeek, Laura Vogler, Alain Deschamps, Andrea Alicia Dumont, Fatine Karkri, Simon Schreiber, Eric Jacobsohn, Renée El-Gabalwy, Morvarid Kavosh, Tarit Saha, Rob Tanzola, Kai Chen, Nicole Relke, Debbie Dumertonshore, Michael Avidan, Jordan Oberhaus

E36. Airway Seen through the Eyes of a Cardiac Anesthesiologist
Sarah Saxena, Adel Aminian, Anne Daper
E37. Aortic Intramural Hematoma Complicating a Routine Cardiac Surgery
Andrew Weaver, Harish Ram, Johan Dorfling

E38. Comparing the Efficacy of the Novel Iron Chelator, DIBI, with Different Classical Iron Chelators in Murine Poly-Bacterial Sepsis
Maral Aali, Kayle Dickson, Juan Zhou, Bruce Holbein, Christian Lehmann

E39. Diaphragmatic Thickness in Patients Receiving PRVC Ventilation and SIMV: A Randomized Controlled Trial
Sulagna Bhattacharjee, Dalim K. Baidya, Souvik Maitra, Ravinder K. Batra

E40. Assessing Sleep Quality and Delirium Prevalence in Cardiac ICU Patients
Claudia Bruguera, Dana Arekat, Ina Zaimi, Andrea Tsai

E41. Cardiac Arrest Secondary to R-on-T Phenomenon Caused by Temporary Epicardial Pacemaker Following Cardiac Surgery
Michelle Chen, Tichaendepi Mundangepfupfu

E42. Lower Oxygen Delivery Is Associated with Delirium and Death in a Single Center Retrospective Cohort Study of 1,452 Patients
Nathan Clendenen, Benjamin Abrams, Nathaen Weitzel

E43. Chronic Opioid Dependence after Isolated Traumatic Brain Injury: A Cross-Sectional Study with Longitudinal Outcome
Lauren K. Dunn, Davis G. Taylor, Samantha Smith, Alexander Skojec, Tony Wang, Joyce Chung, Mark Hanak, Chris Lacomis, Justin Palmer, Caroline Ruminski, Shenghao Fang, Siny Tsang, Sarah Spangler, Marcel Durieux, Bhiken Naik

E44. Rage-Dependent Group 2 Innate Lymphoid Cell Expansion Causes Type 2 Immune Dysfunction in Hemorrhagic Shock
Xiangming Fang

E45. Effect of Angiotensin-II on Vasopressor Dose and Safety in Patients with Severe Vasodilatory Shock
Ashish K. Khanna, Paula Ferrada, Aaron Strumwasser, Alexander Zarbock, Caleb Mackey, Jonathan Wilkinson, Damian Handisides, John Prowle

E46. Coughing Induced Cardiac Arrest after Superior Vena Cava Stent Placement: A Case Report
Kevin J. Min

E47. Rescue Tee for Differentiating and Managing Shock in Critically Ill Patient
Estuardo J. Saravia Fernandez, Vaibhav Bora

Bijan Teja, Nicholas A. Bosch, Allan J. Walkey, Ruxandra Pinto, Hannah M. Wunsch

E49. Predictive Factors for Catheter-Related Bloodstream Infections: An Analysis of Patient Records Over 5 Years in the Intensive Care Unit of a University Hospital
Tomoko Yorozu, Kiyoshi Moriyama, Joho Tokumine, Akira Motoyasu
E50. Puzzle-Based Ultrasound Education for Healthcare Trainees Lays the Foundation for Future U.S. Skills  
Luna Chaaban, Mada Helou, Ryan Nazemian, Lydia Chen, Mariyah Bower, Peggy Seidman

E51. Resource Utilization in Implementation of a PoCUS Curriculum for Resident Training in Anesthesiology  
Viji Kurup, Garrett Sendlewski, Christine Baer, Ranjit Deshpande

E52. Faculty Gender Specific Academic Advancement in U.S. Anesthesiology Teaching Programs and Examination of Contributing Factors Based on Publicly Available Data  
Brenda M. Lee, Farhad Zahedi, Ina Zaimi, David Moss, Roman Schumann

E53. Gender Bending: A National Perspective on Leadership Amongst Female Anesthesiologists in Canada  
Gianni R. Lorello, Alana Flexman

E54. Reporting Preclinical Anesthesia Study (REPEAT): Evaluating the Quality of Reporting in the Preclinical Anesthesiology Literature  
Ryan McGinn, Dean A. Fergusson, Marc Avey, Grace Fox, Neil L. Wesch, Manoj M. Lalu

E55. Root-Cause Analysis for First Case Start Cancellations: Is It the Preoperative Clinic’s Fault?  
Thomas McLarney, Annette Rebel, Lindsay Van Drunen, Dung D. Nguyen

E56. The New Applied Exam Format: Does the Exam Sequence Matter?  
Bjorn Olsen, Annette Rebel, Dung D. Nguyen, Amy Dilorenzo, Jeremy S. Dority

E57. An Altmetric Impact Analysis of Social Media Use, Download Activity, and Online Readership on Citation Frequency of Regional Anesthesia Articles  
Astrid Overholt, Sabrina Dhillon

Paul Pagel, Julie K. Freed, Cynthia Lien, Graham E. Hill

E59. Reducing Operating Room Delays: One Institution’s Search for the Holy Grail  
Scott M. Pappada, Christopher H. Nam, Soroush Merchant, Sonya Rygielski, Andrew Casabianca, Sadik Khuder, Thomas J. Papadimos

E60. How Do Patients Who Respond to Anesthesia Satisfaction Surveys Differ from Patients Who Choose to Not Respond?  
Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick

E61. Global Medical Missions: Airway Management Working with What You Have  
Alice A. Coombs, Fatoumata Kromah, David Cuesta Peraza
Leon Du Toit, Hyla-Louise Kluys, Veekash Gobin, M. Sani Chaibou, Eugene Zoumenou, Akinyinka Omigbodun, Dolly Munlemvo

E63. Preeclampsia Management in Central America: Moving Towards Multidimensional Care?

E64. Water Pollution and Environmental Concerns in Anesthesiology
Marc R. Kostrubiak, Christine M. Vatovec, Lesley-Ann Dupigny-Giroux, Donna Rizzo, William Paganelli, Tsai Mitchell

E65. A Prospective Observational Study of Postoperative Complications at a Non-Profit, Internationally Supported Surgery Center in Guatemala
Katheryne Lawson, Laura Zeigler, Christy Crockett, J. Matthew Kynes, Ligia Figueroa, Caleb Hayes, Christelle Samen, Kelly Mcqueen

E66. Post-Surgical Neuropathic Pain Associates with the Risk of Coronary Heart Disease: A Population-Based Matched Cohort Study
Pei-Shan Tsai, Chun-Jen Huang

E67. Patient Outcomes Following Orthotopic Liver Transplant: Impact of Anesthesiologist Training Model
Joseph A. Abro, Robert Mester, Latha Hebbar, David Stoll, Joel Sirianni, James Fleming, David Taber

E68. Age as a Predictor of Long-Term Outcome after Liver Transplantation
Gebhard Wagener, Erin Hittesdorf, Tara Richter-Smith

E69. Resolution of Hyponatremia after Liver Transplantation and Its Effect on Outcome
Gebhard Wagener, Erin Hittesdorf

E70. Unexpected Complete Tracheal Rings in a Pediatric Patient Presenting for Elective Surgery
Claude Abdallah, Jasleen Kaur, Pamela Mudd

E71. Near Miss: Surgical Site Mark Transfer Leads to Wrong Limb Being Prepped and Draped
Trygve Armour, Sarah Armour

E72. Right Ventricular Failure and Acute Respiratory Distress Syndrome after Drowning Managed with Right Atrial to Pulmonary Artery Extracorporeal Membrane Oxygenation
Christian S. Balabanoff Acosta, Rafael Arciniegas Flores, Anna M. Schuerner, Srikar Jonna, Richard A. Zack-Guasp, Ning Lu, Arnaldo Vera-Arroyo, Ricardo Martinez Ruiz, Valerie Hart

E73. Independent Lung Ventilation as a Rescue Strategy Following Unilateral Lung Transplantation: A Case Report
Amar M. Bhatt, Victor Davila

E74. Opioid-Sparing Anesthetic for Pediatric Posterior Spinal Fusion
Michael Cook, Thomas A. Anderson
<table>
<thead>
<tr>
<th>E75.</th>
<th>Management of a Patient with Placenta Pre via and Von Willebrands Disease Undergoing Neuraxial Anesthesia and Caesarean Section: A Case Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chris Cullom</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E76.</th>
<th>Superior Vena Cava Syndrome from Cannula Malposition during Femoro-Femoral Veno-Venous ECMO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juan C. Diaz Soto, Elvedin Lukovic</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E77.</th>
<th>Opioid Induced Hyperalgesia Treated with Concurrent High Dose Lidocaine and Ketamine Infusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahmed Embabi, Stephen T. Krazit, Biral Patel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E78.</th>
<th>Surgical Stress and the Patient with Carnitine Palmitoyltransferase-II (CPT-II) Deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candy Ezimora, Harendra Arora</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E79.</th>
<th>Respiratory Compromise Due to Electromyographic Endotracheal Tube Intraoperative Structural Damage: An Unusual Airway Situation: How Do I Deal with It?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacquelyn Francis, Deniz Oguz, Sergey Pisklakov</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E80.</th>
<th>Airway Management in a Pediatric Patient with Langer’s Mesomelic Dysplasia: A Rare Form of Severe Dwarfism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aimee Gasior Bejar</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E81.</th>
<th>Intraoperative Management of Stable Ventricular Arrhythmia during Right Carotid Endarterectomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanna Hussey, Ai-Lin Shao, Risa Wolk</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E82.</th>
<th>Anesthesia in Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naoyuki Ishikita</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E83.</th>
<th>Perpendicular and Turbulent Flow after Aortic Valve Replacement: Observe or Repair on Extra Cardiopulmonary Bypass?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shihoko Iwata, Sumire Yokokawa, Keisuke Nakazawa, Minoru Nomura, Makoto Ozaki</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E84.</th>
<th>Spawning Demons with Tramadol and Venlafaxine: An Atypical Case of Hallucinosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yuel-Kai Jean, Melvin C. Gitlin, Keith Candiotti</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E85.</th>
<th>Chordal Entrapment of Mitraclip Requiring Emergency Surgical Mitral Valve Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kiranjit Khazan Singh, Katarina Lenartova, Sarka Moravcova, Toufan Bahrami</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E86.</th>
<th>A Frozen Brain and a Broken Heart: A Case of Takotsubo in the Setting of Catatonia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole King, Edward Misulis, Jeremy P. Walco, Megan Jaynes</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E87.</th>
<th>Delayed Presentation of Traumatic Cardiac Tamponade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Machado, Joanna Schindler</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E88.</th>
<th>Case Series of Ex-Vivo Resections in Patients with Hepatic Tumors with Extension into Inferior Vena Cava and Right Atrium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rebecca Martinez, Avanish S. Reddy, Meneka Dave, Taylor Johnston</td>
<td></td>
</tr>
</tbody>
</table>
E89. Experience of Liver Transplantation for Hereditary Hemorrhagic Telangiectasia  
Takashi Matsusaki, Kazumasa Hiroi, Ryuji Kaku, Hiroshi Morimatsu

E90. Epidural Catheter and Cardiac Catheterization: A Case Report  
Keleigh Mclaughlin, Daniel Sehrt, Jillian Vitter

E91. Anesthetic Management for Treatment of a Large Intrapericardial Cyst Compressing the Superior Vena Cava and Main Pulmonary Artery  
Oran Mehrnia, Joe Cerasuolo, Andrea Tsai

E92. Multifactorial Diabetic Ketoacidosis  
Vanessa Moll, Ceressa T. Ward, Amit Prabhakar, Babar Fiza

E93. Left Ventricular Assist Device and Laparoscopic Sleeve Gastrectomy: A Multidisciplinary Approach to Perioperative Management  
Joseph Mongone, Judith Aronsohn, Daniel Lazar

E94. Otorhinolaryngologic Surgery in a Child with Duchenne Muscular Dystrophy  
Elizabeth Rossmann Beel, Titilopemi Aina, Monica Chen

E95. Misplacement of a Right Subclavian Dialysis Catheter into the Spinal Canal in a Patient on Venovenous Extracorporeal Membrane Oxygenation: A Case Report  
Anna M. Schuerner, Jack Louro, Roman Dudaryk

E96. One Lung Ventilation in a Pediatric Patient in a Resource Limited Setting in Rwanda  
Harmandeep Singh, Stephanie Vecino, Eric Brumberger, Zachary A Turnbull

E97. Management of Erroneous Epinephrine Administration in a Patient with Hypertrophic Obstructive Cardiomyopathy  
Francisco A. Solorio, Scott M. Pappada, Thomas J. Papadimos, Sooraj Yermal

E98. Acute Biventricular Heart Failure with Intraventricular Thrombus Formation Following Pericardiocentesis in a Patient with Newly-Diagnosed Metastatic Lung Cancer  
Diana Tiwari, Adam Mitchell, Abhinav Goyal

E99. A Pediatric Mask Maintained Spontaneous Ventilation/Oxygenation with CPAP in a Deeply-Sedated Patient with Tracheostomy during Emergency Fob Retrieval of a Foreign Body in the Right Mainstem Bronchus  
James Tse, Esther Ogunyemi, Antonio Chiricolo

E100. A Novel Modified Pediatric Face Mask Provided Nasal PCV/Oxygenation While Teaching Medical Student to Perform Intubation in a High-Risk Patient with Cystic Fibrosis Undergoing Endoscopic Sinus Surgery  
James Tse, Mary Vanderveen, George Barsoum, Benjamin Gorbaty, Sylviana Barsoum

E101. Anesthetic Implications for a Patient with Active Tuberculous Vertebral Osteomyelitis (Pott’s Disease) Undergoing Corpectomy with Posterior Fusion  
Kent Vu, Aaron Lim
E102. Spatial Extent of Visually Evoked Gamma Oscillations Is Modulated by Anesthetic Brain State in Mice
Adeeti Aggarwal, Connor Brennen, Brenna P. Shortal, Diego Contreras, Max B. Kelz, Alexander Proekt

E103. Pan-Neuronal Tracking of Neuronal Activity in Anesthetized C. elegans
Mehraj Awal, Greg Wirak, Christopher V. Gabel, Christopher W. Connor

E104. Excitatory and Inhibitory Imbalance May Contribute to the Propofol-Induced Developmental Neurotoxicity through the Dysregulated Signaling Network Between MicroRNAs and mRNAs
Xiaowen Bai, Yasheng Yan, Thiago Arzua, Sarah Logan, Congshan Jiang, Xiaojie Liu, Zeljko Bosnjak, Qingsong Liu

E105. Introducing a Novel Evoked EEG Index to Detect Recall Under Sedation a Proof of Concept Study
Dana Baron Shahaf, Gregory Hare, Andrew J. Baker, Violina Chenosia, Leonid Priven, Nikhil Mistry, Goded Shahaf

Broc Burke, Adam T. Eggbrechht, Karla M. Bergonzi, Arefeh Sherafati, Tracy M. Burns-Yocum, Silvina L.Ferradal, Gyanendra Kumar, Raj Dhar, Andrew K. Fishell, Jin-Moo Lee, Joseph P. Culver

E107. Voluntary Exercise Rescues the Spatial Memory Deficit Associated with Early Life Isoflurane Exposure in Rats
Gregory A. Chinn, Jennifer M. Sasaki Russell, Jeffrey Sall

E108. Metabolipidomic Analysis of Cerebrospinal Fluid Reveals Increased Arachidonic Acid-Derived Lipids and Specialized Pro-Resolving Mediators 24 Hrs and 6-Weeks Following Surgery and Anesthesia
Michael Devinney, Krishna Rao Maddipati, Cliburn Chan, Joseph P. Mathew, Mary Cooter, Niccolo Terrando, Miles Berger

E109. Understanding Functional Connectivity Contributions to Digital Cognitive Pre-Operative Screening Tests: Digital Clock Drawing Test (DCDT) Graphomotor Features
Catherine Dion, Margaret Wiggins, Cheshire Hardcastle, Hua Huang, Shawna Amini, Penney Dana, Randall Davis, Mingzhou Ding, Jared J. Tanner, Catherine Price

E110. Synaptic Ultrastructure in Adolescent Rhesus Monkeys Exposed to Sevoflurane in Infancy
Tristan Fehr, William G. Janssen, Mark G. Baxter

E111. Accuracy and Safety of BIS Monitoring using a Novel Interface Device Connecting Conventional Needle Electrodes and Bis Sensors for Forehead Surgical Approach
Hideki Harada, Miyuki Tauchi

E112. Validation of an Angiographic Global Cerebral Vasospasm Score in Aneurysmal Subarachnoid Hemorrhage: A Feasibility Study
Kevin W. Hatton, Abhisek Patel, Stephen Grupke, Abdulnasser Alhajeri, Leon Su, Arnold Stromberg, Justin Fraser

IARS 2019 ANNUAL MEETING AND INTERNATIONAL SCIENCE SYMPOSIUM
E113. Duration of Isoflurane-Induced Electroencephalographic Suppression Does Not Predict Cognitive Deficit Following Emergence
Leonard B. Hickman, Brenna P. Shortal, Rachel A. Mak-McCully, Wei Wang, Nan Lin, Max B. Kelz, Mathias Basner, George A. Mashour, Michael Avidan, Alexander Proekt, Ben Palanca

E114. Effectiveness of Cell Extract from Mouse Adipose-Derived Stem Cells and Dedifferentiated Fat Cells for Peripheral Nerve Regeneration
Naotaka Kishimoto, Manabu Yamazaki, Jun-Ichi Tanuma, Simon Tran, Kenji Seo

E115. 5-HT Modulation of Cortical Oscillations Are Similar in Freely Moving Rats and in Rat Brain Slices
Bruce Maciver, Brian H Bland

E116. The Neurobics Trial - Perioperative Cognitive Protection: Baseline Participant Characteristics
Ana C. Mavarez-Martinez, Nicholas Turner, Joshua-Paolo Reyes, Alan G. Esparza Gutierrez, Cory Roeth, Alix Zuleta-Alarcon, Sergio Bergese, Michelle Humeidan

E117. Optimizing the Visual Detection of EEG Alpha Oscillations in the Perioperative Setting
David P. Obert, Sebastian Berger, Paul S. Garcia, Jamie Sleigh, Gerhard Schneider, Matthias Kreuzer

E118. Anesthetic Hysteresis Collapses on a Timescale Unrelated to Pharmacokinetics
Andrzej Wasilczuk, Andrew McKinstry-Wu, Benjamin Harrison, Bo Ku, Juliette Palermo, Paula Kwasniewska, Max B. Kelz, Alexander Proekt

E119. Inadequate Spinal Anesthetic in Parturient with Marfan’s Syndrome Undergoing Caesarean Section
Gregory S. Blaufuss, Jay Sanford

E120. Intraabdominal Pressure in Non-Labouring Parturients Scheduled for Elective Lower Segment Caesarean Section Under Spinal Anaesthesia
Devansh Garg, Asha Tyagi, Mahendra Kumar

E121. Evaluation of Ultrasound-Guided Vena Cava Diameter Measurement to Predict Hemodynamic Changes after Labor Epidural Analgesia
Efrain Riveros Perez, Justin Dumrongkulraksa, Maria G. Sanchez, Alexander Rocuts

E122. Management of Obstetric Anesthesia in a Parturient with Dysautonomia
Takashi Sakano, Alon Shertzer, Suzanne Mankowitz

E123. ARDS in Monoamniotic, Monochorionic Pregnancy
Eric F. Worrall, Kathryn Breslin

E124. Lumbosacral Radiculopathy: Inciting Events and Their Association with Epidural Steroid Injection Outcomes
Alyson Engle, Yian Chen, Bryan Marascalchi, Indy Wilkinson, Cathy He, Winfred B. Abrams, Peju Adekoya, Zared O. Cohen, Ada Lyn Yao, Steven P. Cohen

E125. Development of a Pharmacodynamic Assessment Tool for Cannabis Analgesia
Kevin G. Jackson, Luka Vujaskovic, Brent Yeung, Emily Blum, Julia Finkel
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>E126</td>
<td>Carpel Tunnel Release Surgery: A Systematic Review of Open and Endoscopic Approaches</td>
<td>Jacquelin Peck, Sebastian Orman, Vwaire Orhurhu</td>
</tr>
<tr>
<td>E127</td>
<td>Effects of the ABCB1 c.3435C&gt;T (rs1045642) Polymorphism on Heat Pain Perception in Adults with Chronic Pain</td>
<td>Emily M. Pollard, Michael Hooten</td>
</tr>
<tr>
<td>E128</td>
<td>Improving Chronic Pain Outcomes and Access to Cognitive Behavioral Therapy (CBT) in Children with Sickle Cell Disease</td>
<td>Benjamin Portal, Veronica Carullo</td>
</tr>
<tr>
<td>E130</td>
<td>Desire for Painless Surgery and Underestimation of Prescription Opioid Related Risks Prevalent in Perioperative Patients</td>
<td>Soleil Schutte, Linda Le-Wendling</td>
</tr>
<tr>
<td>E131</td>
<td>Perceived Barriers to Implementation of Current Guidelines on Long-Term Opioid Therapy: Results of an Opioid Post-Course Survey</td>
<td>Paul A. Sloan</td>
</tr>
<tr>
<td>E132</td>
<td>Human V. Machine: A Comparison of Satisfaction with Two Different Foreign Language Interventions at Emergence for Subjects Who Do Not Speak English as a First Language</td>
<td>Christopher Awounou, Yaman Kherallah, Nicholas Lyon, Shreya Dhar, David Glick</td>
</tr>
<tr>
<td>E133</td>
<td>Validation of Point-of-Care Hemoglobin Testing in Anemic Adult Patients</td>
<td>Alan Chan, Ryan Lett</td>
</tr>
<tr>
<td>E134</td>
<td>Post Operative Respiratory Failure Following Intracranial and Spine Surgeries</td>
<td>Jagan Devarajan, Eric Chanowski, Bryan Lee, Steven Shook, Dhimant Dani, Ajit Krishnaney, Piyush Mathur</td>
</tr>
<tr>
<td>E135</td>
<td>A Deep Learning Model for Predicting 30-Day Postoperative Mortality</td>
<td>Bradley A. Fritz, Zhicheng Cui, Muhan Zhang, Yujie He, Yixin Chen, Alexander Kronzer, Arbi Ben Abdallah, Christopher R. King, Michael Avidan</td>
</tr>
<tr>
<td>E136</td>
<td>Intraoperative Factors That Improve Risk Prediction of Postoperative Acute Kidney Injury in General Surgery Patients</td>
<td>Minjae Kim, Ravi Kiran, Guohua Li</td>
</tr>
<tr>
<td>E137</td>
<td>Assessing Methods of Medication Error Monitoring for Quality Improvement</td>
<td>Albert Y. Lin, Manon Haché, Gracie Almeida-Chen, Lena Sun</td>
</tr>
<tr>
<td>E138</td>
<td>Preoperative Anesthesiologist-Led Clinic and Multi-Disciplinary Team Clinic</td>
<td>Kazumi Ono, Hidekuni Hidaka, Masuya Sato</td>
</tr>
</tbody>
</table>
E139. Endotracheal Tube Cuff Pressures: How Much Is Too Much?
Bansi Patel, Connor Funsch, Paul Potnuru, Angela Chang, Roman Dudaryk

E140. Evaluation of Perioperative Safety Behaviors at a Multidisciplinary Level
Emma Schremp, Daniel J. France, Peter Grubb, Marty Blakely, Amanda Lorinc, Christoph U. Lehmann, Timothy Vogus

E141. Enhanced Monitoring of Hypoxemia and Hypoventilation Reduces Postoperative Cardio-Pulmonary Complications in Patients Undergoing Bariatric Surgery: A Retrospective Observational Cohort Study
Mandeep Singh, Frances F. Chung, Jean Wong, Najia Hassan, George Tomlinson, Julie Hudson, Laura Hawryluck

E142. Educational Interventions to Prevent Perioperative Syringe Swaps of High-Alert Medications
Jamie Sparling, Douglas Choe, Allison Doney, Jeremi Mountjoy, Aalok V. Agarwala, Kathy Kong, Leo Tabayoyong, May C. Pian-Smith

E143. Solutions for Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema in a High Risk Population: A Single Center Retrospective Observational Study
Tracey Straker, Alexandra Bastien, Dahlia Townsed, Singh Nair

E144. Solutions for Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema in a High Risk Population: A Single Center Retrospective Observational Study
Tracey Straker, Alexandra Bastien, Dahlia Townsed, Singh Nair

E145. Incidence of Patient Safety Events Associated with Prolonged Extubation
Andrea Vannucci, Kevin Prifti, Isabella Rossi, Anne Sebastiani, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

E146. Distraction as a Means of Providing Procedural Anxiolysis for a Three Year Old with Severe Biventricular Cardiomyopathy
Adam C. Adler

E147. Association Between Hypothermia and PACU Length of Stay in Pediatric Patients Undergoing MRI with General Anesthesia
Thomas M. Austin, Michael Fiedorek, Chris Fiedorek, Ashley Lefevre, Humphrey Lam, Thomas M. Austin

E148. Pediatric Rhabdomyolysis: An Analysis of Demographics, Risk Factors, and Outcomes
James Damiano, Lena Sun, Teeda Pinyavat

E149. Prediction of Blood Product Transfusion in Patients Undergoing Craniofacial Surgery using Machine Learning Based on the Pediatric Craniofacial Collaborative Group Registry Dataset
Allison M. Fernandez, Lillian Zamora, Ali Jalali, Luis Ahumada, Paul A. Stricker, Jim Fackler, Mohamed Rehman

E150. PCEA vs IV PCA: A Randomized Controlled Trial Assessing Pain Control Following Minimally Invasive Repair of Pectus Excavatum
Chris D. Glover, Michael Zelisko, Nihar V. Patel, Mark Mazziotti, Darrell Cass, Kim P. Nguyen
E151. Endotracheal Tube Cuff Inflation using Closure of the Flow Volume Loop. Test of This Novel Method in a Model of the Pediatric Airway
Thomas Hackmann, Sammy Jreige

E152. A Survey on Discharge Practices for Former Term and Preterm Infants at Risk for Post-Operative Apnea Following General Anesthesia
Matthew F. Hirschfeld, Lynnie Correll, John Schroeder, Anna Rabinowitz, Ashwani Chhibber

E153. Unclear Etiology of Profound Respiratory Failure Requiring ECMO after PA Reconstruction and Repair of Tetralogy of Fallot with Pulmonary Atresia, and Major Aortopulmonary Collateral Arteries
Richard Jin, Anthony Clapcich

E154. A Novel Anaesthetic Technique for Laparoscopic Inguinal Hernia Repair in Infants and Neonates
Prakash Krishnan, Simon D. Whyte, Robert Baird, Stephan Malherbe

E155. Perioperative Temperature Regulation in Pediatric Surgical Patients: Too Warm for Comfort
Shu Ying Y. Lee, Rehana Sultan, Yew N. Siow, Choon L. Bong

E156. Spinal Anesthesia in Neonates Presenting for Infraumbilical Surgeries Can Improve Operating Room Utilization in Addition to Reducing Risk for Postoperative Apnea and Hemodynamic Fluctuations
Chang Amber Liu

E157. Intranasal Midazolam with Xylocaine for Pediatric Pre Op Sedation in Ambulatory Myringotomy and Tube Placement Surgery: A Randomized Controlled Trial
David A. Ullman, Melissa B. Scribani, Jennifer M. Victory

E158. Complications and Consequences of Anesthetic Technique for Endobronchial Ultrasound Guided Transbronchial Needle Aspiration (EBUS-TBNA): Implications from a Retrospective Study
Megan Anders, Emily A. Bergbower, Miranda Gibbons, Ashutosh Sachdeva, Peter Rock

E159. Continued Analysis of the Optimal Surgical Utilization with Minimal Cancellations and Complications (OSUWMC2) Quality Initiative in Microvascular Breast Reconstruction Patients
Jaume Borrell Vega, Cory Roeth, Christina M. Pennington, Juan L. Rendon, Emma L. Alden, Erik E. Abel, Roman J. Skoracki, Ronald L. Harter, Susan Moffatt-Bruce, Mahmoud Abdel-Rasoul, Diana Wang, Michelle Humeidan

E160. Focused Transthoracic Echocardiography and Peri-Operative Cardiac Arrest: Feasibility Study
Nibras Bughrara, Susan L. Herrick, Krishnaveni Sirigaddi, Kevin Roberts, Aliaksei Pustavoitau

E161. The Association of Primary Anesthesia Type with Postoperative Outcomes Following Neurointerventional Treatment of Acute Ischemic Stroke: A Retrospective Cohort Analysis
Bryan Cozart, Rodney A. Gabriel

Shane C. Dickerson, Mark Swanson, Kevin Blaine, Yaroslava Longhitano, Christian Zanza, Michael P. Kim
<table>
<thead>
<tr>
<th>Poster</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>E164.</td>
<td>Sevoflurane Attenuates Natural Killer Cell Activity and Decreases Apoptosis of Target Tumor Cells</td>
<td>Valerie C. Fehr, Suellen Oliveira, Martin Schlapfer, Richard Minshall, Beatrice Beck-Schimmer</td>
</tr>
<tr>
<td>E165.</td>
<td>The Impact of Cannabis Use Disorder on Perioperative Outcomes in Major Elective Surgeries: Results from a Nationally Representative Sample</td>
<td>Akash Goel, Brandon Mcguinness, Naheed Jivraj, Duminda N. Wijeysundera, Hance Clarke, Brian Bateman, Karim Ladha</td>
</tr>
<tr>
<td>E166.</td>
<td>Incidence of Preoperative Cardiac Stress Test Rates Decreased in Patients Undergoing Elective Total Hip and Knee Arthroplasty from 2008 - 2015</td>
<td>Robert Hughey, Daniel S. Rubin</td>
</tr>
<tr>
<td>E167.</td>
<td>Persistent Increase in Neurodegeneration Markers and Immunoaberration after Elective Heart Surgery</td>
<td>Krzysztof Laudanski, Matthew Dimeglio, Ramon Diaz-Ariasta, Saumil Patel</td>
</tr>
<tr>
<td>E170.</td>
<td>Identifying Risk Factors for Failure to Rescue in People with Myocardial Infarction after Non-Cardiac Surgery: A Cohort Study</td>
<td>Sasha Mazzarello, Daniel I. McIsaac, W. Scott Beattie, Dean A. Fergusson, Manoj M. Lalu</td>
</tr>
<tr>
<td>E171.</td>
<td>Association of Colloid Choice and Bleeding Following Musculoskeletal Surgery: A Retrospective Cohort Study and Natural Experiment</td>
<td>Duncan J. Mclean, Vijay Krishnamoorthy, Alan Ellis, Mihaela Stefan, Brian Nathanson, Julien Cobert, Peter Lindenauer, M. A. Brookhart, Karthik Raghunathan</td>
</tr>
<tr>
<td>E172.</td>
<td>Thoracic Epidural vs Intercostal Nerve Blocks with Liposomal Bupivacaine for Post-Operative Pain Control in Patients Undergoing Video-Assisted Thoracoscopic Surgery</td>
<td>Linzi Moss, Ying Hui Low</td>
</tr>
<tr>
<td>E173.</td>
<td>Using Pharmacy Data Surrogates to Track Efficacy of a Corneal Protection Protocol</td>
<td>William P. Murphy, Michal Vascak, John C. Stansfield, Adam P. Sima</td>
</tr>
</tbody>
</table>
E175. Association of Preoperative Spirometry with Cardiopulmonary Fitness and Postoperative Outcomes in Surgical Patients  
Ashwin Sankar, Kevin E. Thorpe, Andrea S. Gershon, John Granton, Duminda N. Wijeysundera

E176. Daily Prediction of Delirium in Hospitalized Patients using Boosted Trees  
Kendrick M. Shaw, Eyal Y. Kimchi, Oluwaseun Akeju, Michael B. Westover

E177. The Pattern of Perioperative High-Density Lipoprotein Particle Loss Is Independently Associated with Acute Kidney Injury after Cardiac Surgery  
Loren Smith, Derek K. Smith, Alan T. Remaley, Macrae F. Linton, Frederic T. Billings

E178. Impact of Intraoperative Use of Sequential Peristaltic Pneumatic Compression Device on Fluid Requirement during General Anesthesia  
Mukesh Tripathi, Masaipeta Kesari, Ankit Agarwal, Shivendra D. Dwivedi

E179. Serratus Anterior Plane Block for Pediatric Thoracoscopy  
Katsiaryna Bellaousov, Donna Bracken, Suparna Dang, Danielle Lindenmuth, Audra Webber

E180. Ultrasound Guided Supraclavicular vs Retroclavicular Block of the Brachial Plexus: Comparison of Impact on Ipsilateral Diaphragmatic Function  
Paige L. Georgiadis, Kamen Vlassakov, Philipp Lirk, Jose Zeballos, Kristin Schreiber

E181. What Is the Value of a 2nd and 3rd Intercostal Nerve Blocks for Axillary Pain after Shoulder Surgery?  
Erik M. Helander, Linda Le-Wendling, Barys Ihnatsenka, Yury Zasimovich

E182. The Role of Pectoralis-II Myofascial Block in Breast Cancer Surgery: A Systematic Review and Meta-Analysis of the Absolute and Relative Analgesic Efficacy  
Nasir Hussain, Richard Brull, Colin McCartney, Nicolas Kumar, Michael Essandoh, Faraj Abdallah

E183. Title Pending  
Hwa-Young Jang, Ha-Jung Kim, Hyung-Tae Kim, Won Uk Koh, Young-Jin Ro

E184. Effects of Lidocaine on Breast Cancer Cells and the Potential Role of Transient Receptor Potential Melastatin 7 (TRPM 7)  
Zhaosheng Jin, Hengrui Liu, Jiaxin Liu, James P. Dilger, Jun Lin

E185. Pectoral Block vs Paravertebral Block: A Systematic Review and Meta-Analysis  
Zhaosheng Jin, Jiaxin Liu, Ru Li, Tong Joo (TJ) Gan, Jun Lin

E186. Safety and Efficacy of a Regional Anesthetic Protocol Performed by General Anesthesiologists for Total Knee Arthroplasty in a Rural Community Hospital  
Kathleen Johnson, Hannah M. Harris, Matthew W. Bullock, Daniel J. Forest, Melissa Laxton, Jordan Rejeski, Yvon F. Bryan

E187. Preoperative Pregabalin Prolongs Spinal Anesthesia for Total Knee Arthroplasty  
Deniz Oguz, Sergey Pisklakov
E188. Comparison of Post Operative Analgesia and Incidence of Chronic Pain in Quadratus Lumborum Block and Transversus Abdominis Plane Block in Patients Undergoing Elective Inguinal Hernia Surgery
S. Adinarayanan, Karthikeyan Alagumalai, Vasudevan Arumugam

E189. A Report on 105 Outpatient Total Knee Arthroplasties
Cameron Smith, Linda Le-Wendling, Barys Ihnatsenka, Olga Nin, Luis F. Pulido, Hari K. Parvataneni, Andre P. Boezaart

E190. Is Extrapolation of Animal Data for Intraneural Injection to Humans Valid?
Cameron Smith, Anna Server, Steven Vose, Xavier Sala-Blanch, Erik M. Helander, Miguel A. Reina, Andre P. Boezaart

Vimal Desai, Shawn Winnick, Peggy G. Duke, Diana Laplace, Vu T Nguyen, Atef Morkos, Stephen Moy, Elena Chung, Jennifer Naughton, Jennifer Dang, Ryan Depakakibo, Chunyuan Qiu

E192. Correlation Between Lung Mechanics Parameters during Abdominal Surgery and Plasma Levels of Biomarkers of Lung Injury
Ana Fernandez-Bustamante, Juraj Sprung, Karsten Bartels, Carolina Kosour, Toby Weingarten, Marcos Vidal Melo

Keisuke Kawata, Kazunori Okabe

E194. Perioperative Risk Factors for Postoperative Respiratory Complications in Patients at Risk for Obstructive Sleep Apnea
Alberto A. Uribe, Sergio Bergese, Alan G. Esparza Gutierrez, January K. Kim, Marily Palettas, Juan Fiorda-Diaz, Nicoleta Stoica

E195. Effect of Cardiac Surgery on Post-Operative Sleep Patterns: An Observational Study
Amanda Kleiman, Julie Huffmyer, Edward C. Nemergut, Lauren K. Dunn, Eryn L. Thiele, Jane L. Gui

E196. Evaluation of Micropore’s Spiralith Absorbents into Anesthesia Breathing Circuits
Raksha Bangalore, Andrea Perales, Anna Korban, George Tewfik

E197. Comparing Hemorrhage in Human Physiology Simulation Tools: How They Stack Up Against Expected Human Physiology and Each Other
John J. Barnes, Mojca R. Konia, Jon Keller, Kenneth Kiberenge

E198. Impact of Preload Changes on Tissue and Cerebral Oxygenation Values
Anna-Maria E. Eid, Abdallah Yassin, Mona A Ganash, Mai Khairy, Samar Seleem, Somaia A. Mohamed, Aymen Alian

E199. Preoperative Left Ventricular Energy Loss in the Operating Theater Reflects Subjective Symptoms in Patients with Chronic Aortic Regurgitation
Atsushi Kainuma, Koichi Akiyama, Yoshifumi Naito, Mao Kinoshita, Masaru Shimizu, Maki Ishii, Junya Ohara, Teiji Sawa
E200. Transcutaneous Measurement of Volatile Anesthetic Gas: A Preliminary Study  
Ernesto A. Pretto, Robert Fiala, Ahmed H. Jalal, Carla R. Cordova, Yogeswaran Umasankar, Shekhar Bhansali

E201. Glucose Measurements in Blood-Free Balanced Salt Solutions with Three Devices  
Matthias Riess, William J. Cleveland, Johannes A. Pille, Felicia P. Lotze, Michele M. Salzman, Claudius Balzer, Josephine Hees

E202. Diagnosing Respiratory Obstruction with Continuously Recorded Tidal Breathing Flow Volume Loops using a Non-Invasive Respiratory Volume Monitor  
Wael Saasouh, Peggy G. Duke, Man Ching Cheung

E203. Background Music Contributes to Error in the Operating Room  
Joseph Schlesinger, Kendall J. Burdick, Clayton D. Rothwell

E204. Validation of Non-Invasive Beat-To-Beat Finger Arterial Pressure Measured Ipsi - and Contra-Laterally of the Radial Artery Blood Pressure  
Rogier V. Immink, Denise P. Veelo, Julia Heusdens, Bart F. Geerts, Lotte Terwindt

E205. The Role of Microtubule Instability in the Histone-Induced Endothelial Barrier Dysfunction  
Boyoung Cha, Junghyun Kim, Chenou Zhang, Kenichi Tanaka, Konstantin Birukov, Anna Birukova

E206. Sevoflurane Is Associated with Worse Clinical Outcomes and Altered Inflammatory Markers in Blunt Trauma Patients: Pharmacogenomic Association with Single Nucleotide Polymorphisms rs4715332 and rs1695  
Maria A. Cohen, Lukas Schimunek, Rami A. Namas, Ata M. Kaynar, Markus Huber-Lang, Timothy R. Billiar, Yoram Vodovotz

E207. Intraoperative Management of a Trauma Patient with Suspected Malignant Hyperthermia, Hemorrhagic Shock, and Acute Pulmonary Edema Necessitating ECMO: A Case Report  
Andreas Plackis, Steve Hyman, Amy Robertson

E209. Circulating Plasma miRNAs Trigger Innate Immune Activation in a Mouse Model of Polytraumatic Injury  
Andrew O. Suen, Sheng Wang, Lin Zou, Rosemary Kozar, Catriona Miller, Wei Chao
<table>
<thead>
<tr>
<th>148</th>
<th>SUN, MAY 19: IARS POSTER SESSION F</th>
</tr>
</thead>
</table>
| **F1.** Changes in Applied Laryngoscope Force Affect Peak Spinal Cord Strain  
*Benjamin C. Gadomski, Brad J. Hindman, Mitchell Page, Michael Todd, Vincent C. Traynelis, Christian M. Puttlitz*  |
| **F2.** A Randomized Comparison of Airway Devices in Patients with Simulated Cervical Immobilization  
*Min Hur, Tae Kyong Kim, Hyung-Chul Lee*  |
| **F3.** Effect of Cervical Collar on Oropharyngeal Sealing Pressure and Fiberoptic View of the Glottis with Ambu Aura Gaintm Laryngeal Airway: A Randomized Cross Over Trial  
*Suman Lata, Sandeep K. Mishra, Duraiyarassu Uthaman*  |
| **F4.** Vallecular Cyst in a Patient Undergoing Emergency Embolization of Ruptured Cerebellar Aneurysm: An Unanticipated Difficult Airway  
*Yamin A. Noor, Eric Kamenetsky*  |
| **F5.** Experimental Study on Temperature Change in Circuit during Low Flow Anesthesia Due to Difference in Anesthesia Circuit  
*Nobukazu Sato, Hiroko Baba*  |
| **F6.** A Pilot Study to Determine the Accuracy of Ultrasound in Measurement of the Dimensions of the Pediatric Cricothyroid Membrane  
*Bill A. Walsh, Paul Fennessy, Roisin Ni Mhuircheartaigh, Aisling Snow, Kevin McCarthy, Conan McCaul*  |
| **F7.** Adductor Canal Nerve Block vs Intra-Articular Anesthetic in Knee Arthroscopy: A Prospective Randomized Trial  
*Audrice Francois*  |
| **F8.** Use of a Modified Infant Face Mask and a Mapleson C Circuit to Maintain Spontaneous Nasal Ventilation and Oxygenation in Obese Patients during Outpatient EGD and Colonoscopy  
*James Tse, Sylviana Barsoum, Kang Rah*  |
| **F9.** Propofol Toxicity in Cardiomyocyte Mitochondria of Developing Mice: The Role of the Mitochondrial Transition Pore  
*Matthew Barajas, Richard J. Levy, Sarah Brunner, Lifei Wang, Aili Wang*  |
| **F10.** S-Ketamine Enhances Thalamocortical As Well As Intracortical Synaptic Transmission in Mouse Brain Slices  
*Matthias Bieber, Claudia Kopp, Gerhard Schneider, Matthias Kreuzer, Stephan A. Kratzer, Rainer Haseneder*  |
| **F11.** Sevoflurane Enhances iNOS Expression and Bactericidal Effects of Macrophages In Vitro and In Vivo in a Murine Model  
*Thomas Gerber, Valerie C. Fehr, Suellen Oliveira, Guochang Hu, Randal O. Dull, Marcelo Bonini, Beatrice Beck-Schimmer, Richard Minshall*  |
| **F12.** Pharmacodynamics of Handgrip Strength during Induction of Propofol Anesthesia  
*Christian S. Guay, Gilles Plourde*  |
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>F13</td>
<td>Effect of Sevoflurane and Propofol on a Human Breast Cancer Cell Line with Tropism to Brain in Vitro</td>
<td>Zhaosheng Jin, Jiaxin Liu, Hengrui Liu, Jun Lin</td>
</tr>
<tr>
<td>F14</td>
<td>Intravenous vs Volatile Anesthesia and Breast Cancer Surgery Outcome: A Systematic Review and Meta-Analysis</td>
<td>Zhaosheng Jin, Ru Li, Jiaxin Liu, Jun Lin</td>
</tr>
<tr>
<td>F15</td>
<td>At Supra-Clinical Doses ABP-700 Produces Involuntary Muscle Movements Distinct from Seizure Activity in Beagle Dogs</td>
<td>John Marota, Dario Lehoux, Brad Zerler, Mylene Pouliot, Simon Authier</td>
</tr>
<tr>
<td>F16</td>
<td>Differential Inhibition of Steroidogenesis by Etomidate and Etomidate Analogs in Adult Male Rats</td>
<td>Megan Mcgrath, Alissa Hofmann, Douglas E. Raines</td>
</tr>
<tr>
<td>F17</td>
<td>A Semimechanistic Model to Characterize the Pharmacokinetics and Dynamics of Subcutaneous Dexmedetomidine in Healthy Adult Volunteers</td>
<td>Teijo I. Saari, Muhammad W. Ashraf, Panu Uusalo, Mika Scheinin</td>
</tr>
<tr>
<td>F18</td>
<td>Studies of the New Neuromuscular Blocking Agent CW 1759-50 in the Cat, As in Monkeys, Predict Short- to Ultra-Short Duration in Humans, Reflecting Rapid Degradation by L-Cysteine Adduction in Vitro</td>
<td>John J. Savarese, Hiroshi Sunaga, Jeff Mcgilvra, Paul M. Heerdt, Anita M. Jegarl, Farrell Cooke, Stewart Mccallum, Randy Mack</td>
</tr>
<tr>
<td>F19</td>
<td>Prevalence of Bradycardia Associated with Sugammadex Administration in a Single-Center Retrospective Analysis of Electronic Medical Record Data</td>
<td>Matthew Weis, Courtney Elder, Arjun Meka, Lauren Meyer, Craig S. Jabaley, Milad Sharifpour, Vikas N. O’Reilly-Shah</td>
</tr>
<tr>
<td>F20</td>
<td>Restrictive Versus Liberal Transfusion Strategies in Cardiac Surgery: A Systematic Review and Meta-Analysis with Trial Sequential Analysis</td>
<td>Hessam Kashani, Carly Lodewyks, Morvarid S. Kavosh, Christine Neilson, Rasheda Rabbani, Ahmed Abou-Setta, Hilary P. Grocott</td>
</tr>
<tr>
<td>F21</td>
<td>Studies of the New Neuromuscular Blocking Agent CW 1759-50 in the Cat, As in Monkeys, Predict Short- to Ultra-Short Duration in Humans, Reflecting Rapid Degradation by L-Cysteine Adduction in Vitro</td>
<td>John J. Savarese, Hiroshi Sunaga, Jeff Mcgilvra, Paul M. Heerdt, Anita M. Jegarl, Farrell Cooke, Stewart Mccallum, Randy Mack</td>
</tr>
<tr>
<td>F22</td>
<td>Greater Anemia Tolerance in Females Compared to Males for Inpatient Mortality</td>
<td>Mereze Visagie, Kathryn Pearson, Taylor Purvis, Eric A. Gehrie, Steven M. Frank</td>
</tr>
<tr>
<td>F23</td>
<td>Mitral Valve Repair Complicated by Left Circumflex Coronary Artery Occlusion: The Vital Role of the Anesthesiologist</td>
<td>Andres Bacigalupo Landa, Jayanand D’Mello</td>
</tr>
<tr>
<td>Poster Number</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>F24.</td>
<td>Guidance of A Bi-Caval Dual Lumen Catheter Placement and Diagnosis of a Catastrophic Complex Occlusive Thrombus: Case Report and Literature Review</td>
<td>Sunny Chiao, Amanda Kleiman</td>
</tr>
<tr>
<td>F25.</td>
<td>Metabolomic Profiling Reveals Sex Differences and a Reduction in Metabolism after Remote Ischemic Preconditioning</td>
<td>Elijah Christensen, Anushri Desai, Trevor Banack, Joel Zylberberg, Nathan Clendenen</td>
</tr>
<tr>
<td>F28.</td>
<td>Effect of L-Glutamine on O-Linked β-N-Acetylgalactosamine and Heat Shock Protein 70 in the Isolated Ischemic Rat Heart Model</td>
<td>Akiko Kawakami, Tamaki Sato, Yosuke Nakadate, Patricia Roque, Arkady Khoutorsky, Hiroaki Sato</td>
</tr>
<tr>
<td>F29.</td>
<td>Oxidative Damage, Delirium, and Neuronal Injury in Cardiac Surgery</td>
<td>Marcos Lopez, Christopher G. Hughes, Matthew Shotwell, Frederic (Josh) Billings</td>
</tr>
<tr>
<td>F30.</td>
<td>Effect of Intranasal Insulin Administration on Glycemia and Plasma Insulin in Cardiac Surgery Patients</td>
<td>Yosuke Nakadate, Patricia Roque, Hiroaki Sato, Tamaki Sato, Akiko Kawakami, Linda Wykes, Renzo Cecere, Dominique Shum-Tim</td>
</tr>
<tr>
<td>F32.</td>
<td>Protamine-Heparin Neutralization Ratio in Cardiac Surgery</td>
<td>Daniel Szoke, Ravi Taneja, Zach Hynes</td>
</tr>
<tr>
<td>F33.</td>
<td>Preliminary Results of a Study on the Use of a Wireless Holter-Like Device to Detect Patients with Silent Atrial Fibrillation Leading to New Onset Atrial Fibrillation after CABG</td>
<td>Lian Kah Ti</td>
</tr>
<tr>
<td>F34.</td>
<td>Turbulent Pulmonary Vein Flow in Adult Patient after CABG</td>
<td>Emily Wang, Aaron Mittel</td>
</tr>
<tr>
<td>F35.</td>
<td>Glycemic Stress Index: It Is Useful in Every Clinical Scenario?</td>
<td>Swapnil Aswar, Mathieu Georges, Gianluca Bertolizio</td>
</tr>
<tr>
<td>F36.</td>
<td>Early Mobility in the Cardiothoracic Surgical Intensive Care Unit: A Quality Improvement Study</td>
<td>Michael W. Best, Layne Madden, Matthew Wiepking, Salila Hashmi, Maxwell Hockstein, Craig S. Jabaley, Mark Caridi-Scheible</td>
</tr>
<tr>
<td>Poster Number</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>F37</td>
<td>Carbon Footprint of the Critically Ill: An Economic Input-Output Analysis of the ICU and the Environmental Impact of Delayed Patient Discharge Due to Bottleneck in Availability of Lower Acuity Beds</td>
<td>Adjoa Boateng, Jodi Sherman</td>
</tr>
<tr>
<td>F38</td>
<td>Antipsychotic Medication Prescribing Patterns for Management of Intensive Care Unit (ICU) Delirium in 8872 Patients</td>
<td>Christina Boncyk, Christopher G. Hughes, Joanna Stollings, Matthew Shotwell, Xiaoke Feng, Matt Marshall</td>
</tr>
<tr>
<td>F39</td>
<td>Clevidipine Use after First-Line Treatment Failure for Perioperative Hypertension in Neurosurgical Patients: A Single-Center Experience</td>
<td>Jaume Borrell Vega, Alberto A. Uribe, Marilly Palettas, Sergio Bergese</td>
</tr>
<tr>
<td>F40</td>
<td>Successful Extracorporeal Membrane Oxygenation Utilization for Refractory Acute Respiratory Distress Syndrome Following Orthotopic Liver Transplantation Re-Exploration for Intra-Abdominal Hemorrhage</td>
<td>Anna Ciullo, Suzanne Bennett</td>
</tr>
<tr>
<td>F41</td>
<td>Association Between Preadmission Chronic Opioid Usage and 90-Day Mortality in Critically Ill Patients</td>
<td>Jeong-Pyo Hong, Tak Kyu Oh, Sung-Hee Han, Jung-Hee Ryu, In-Ae Song</td>
</tr>
<tr>
<td>F42</td>
<td>Palliative Care Consultants in the Intensive Care Unit: A Systematic Review</td>
<td>Diana Hylton, Rebecca A Aslakson</td>
</tr>
<tr>
<td>F43</td>
<td>Racial and Ethnic Differences in Healthcare Utilization Following Severe Acute Brain Injury</td>
<td>Rayleen Jones, Vijay Krishnamoorthy, Karthik Raghunathan</td>
</tr>
<tr>
<td>F44</td>
<td>Outcomes in Patients with Post-Operative Vasoplegia Receiving Angiotensin-II for Vasodilatory Shock</td>
<td>Ashish K. Khanna, Bruce Friedman, Caleb Mackey, Rakshit Panwar, Adam Evans, Laith Altaweel, Damian Handisides, Annette C. Chavez, Ara Klijian</td>
</tr>
<tr>
<td>F46</td>
<td>Discordant Anti-Xa and PTT Levels during Unfractionated Heparin Therapy and Increased Clinical Risk for Adverse Events</td>
<td>Lauren Myers, Andrew Barker, Brant Wagener</td>
</tr>
<tr>
<td>F47</td>
<td>Spatial and Temporal Identification of the Il-1β Producing Cell Type in the Lung through Primary Cell Expression Profiling in Intact Human and Mouse Lung Tissue</td>
<td>Arun Prakash, Xiaoli Tian</td>
</tr>
<tr>
<td>F48</td>
<td>Inflammatory Profile of Murine Septic AKI: Role of CD11c+/CX3CR1+ Antigen Presenting Cells</td>
<td>Jamie Privratsky, Jiafa Ren, Benjamin Morris, Steven D. Crowley</td>
</tr>
<tr>
<td>Session</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>F49</td>
<td>Mushroom Poisoning from Amanita Phalloides Resulting in Orthotopic Liver Transplantation</td>
<td>Jeremy T. Rainey, Avneep Aggarwal</td>
</tr>
<tr>
<td>F50</td>
<td>Role of Innate Immune miRNA-TLR7 Signaling in Sepsis-Induced Coagulopathy in Mice</td>
<td>Brittney Williams, Jessica Neder, Lin Zou, Wei Chao</td>
</tr>
<tr>
<td>F51</td>
<td>Assessing Post-Surgical Mortality Risk through Nonlinear Coupling of Intraoperative Heart Rate and Blood Pressure Time Series</td>
<td>Alexander L. Young, Hau-Tieng Wu, Willem Van Den Boom, Vijay Krishnamoorthy, Karthik Raghunathan, David B. Dunson</td>
</tr>
<tr>
<td>F52</td>
<td>Efficient Trainee Allocation at an ACGME-Accredited Regional Anesthesia and Acute Pain Medicine Fellowship Program</td>
<td>Mushfique Ahmed, Nicholas Schott</td>
</tr>
<tr>
<td>F54</td>
<td>Insurance Payor Status Not An Independent Risk Factor for Post-Operative Complications of Anterior Lumber Interbody Fusion Surgeries</td>
<td>John Foote, Daniel Snyder, Sean Neifert, Jonathan Gal</td>
</tr>
<tr>
<td>F55</td>
<td>Does a Simulation Course Lead to Improved Management of an Emergency Situation? to Determine the Efficacy of a Simulation Course on Clinical and Non-Clinical Competency</td>
<td>Stephanie Herbstreit, Cynthia Szalai</td>
</tr>
<tr>
<td>F56</td>
<td>Point-of-Care Ultrasound Education in Anesthesiology: How Can We Use the PGY1 Year?</td>
<td>Jon Holzberger, Annette Rebel, Amy Dilorenzo, Randall M. Schell, Jeremy S. Dority</td>
</tr>
<tr>
<td>F57</td>
<td>The Impact of Caffeine Ingestion on the Driving Performance of Anesthesiology Residents after Six Consecutive Overnight Work Shifts</td>
<td>Julie Huffmyer, Amanda Kleiman, Matthew Moncrief, David Scalzo, Daniel J. Cox, Edward C. Nemergut</td>
</tr>
<tr>
<td>F58</td>
<td>Electronic Decision-Support Tools to Enhance Compliance with Performance Measures for Perioperative Temperature Management</td>
<td>Sameer Lakha, Matthew Levin, Andrew Leibowitz, Hung-Mo Lin, Jonathan Gal</td>
</tr>
<tr>
<td>F60</td>
<td>Women in Anesthesiology: Playing in the Sandbox Is Not a One “Man” Show</td>
<td>Gianni R. Lorello, Tulin Cil, Fiona Webster, Alana Flexman</td>
</tr>
<tr>
<td>F61</td>
<td>Women Program Directors in Anesthesiology: Closing the Gender Gap</td>
<td>Andrea N. Miltiades, Alexander Rusanov, Teresa Mulaikal, Maya Hastie</td>
</tr>
</tbody>
</table>
F62. Use of 30-Day Versus 90-Day Mortality Rates Following Cardiac Surgery to Compare Quality in New York State
Aaron Mittel, Dae Hyun Kim, Zara Cooper, Michael Argenziano, May Hua

F63. Citation of Retracted Articles in Anesthesiology: A Systematic Review
Singh Nair, David Adams, Jonathan Leff, Ellise Delphin, Benjamin Schwartz

F64. Reliability Analyses of the Objective Structured Clinical Examination (OSCE) Component of the Applied Certification Examination using Generalizability Theory
Pedro P. Tanaka, Yoon Soo Park, Linda Liu, Chelsia Varner, Ankeet D. Udani, Charandip Sandhu, Roya Yumul, Kate Tobin McCartney, Jared Spilka, Alex Macario

F65. Comparing Prefilled Syringes of Phenylephrine to Standard Practice in an Operating Room Setting
Jordan Tarshis, Stephen Choi

F66. Gender Differences Among Adult Critical Care Program Directors
Terrie Vasilopoulos, Brenda Fahy, Mohammed Almualim, Peggy White, Rogerio A. Santos, Deborah J. Culley

F67. Accelerated Three Year MD Pathway for Future Anesthesia Residents
Michael Wajda, William Kim, Aaron Primm, David Furgiuele, Ian Zolnowski, Justin Feit, Mitchell Lee

F68. Intraoperative Hypertension and Postoperative Intensive Care Unit (ICU) Admission Among Older Cancer Patients
Anoushka Afonso, Dahniel Sastow, Gregory W. Fischer, Armin Shahrokni

F69. Ease of Implementing Routine Preoperative Cognitive Screening to Identify Surgical Patients at Risk for Perioperative Neurocognitive Disorder
Justyne Decker, Arash Motamed, Carol J. Peden

F70. Hemodynamic Effects of Dexmedetomidine on Elderly Patients with Proximal Femoral Fractures Under Spinal Anesthesia
Sangeun Lee, Jaehong Park, Dongju Shin Shin, Jaehwan Kim

F71. A Survey of Older People after Major Surgery: Prioritization of Routine and Patient-Reported Postoperative Outcome Measures
Julia F. Shaw, E. Beasley, E. Hladkowicz, Gregory L. Bryson, Daniel I. McIsaac

F72. The Impact of Frailty on Outcomes in Adult Trauma Patients: A Systematic Review and Meta-Analysis
Julia F. Shaw, A. Poulton, F. Nguyen, C. Wong, A. Tran, J. Lampron, Manoj M. Lalu, Daniel I. McIsaac

F73. Anaphylaxis Associated with Sugammadex: A Case Report
Ioannis Angelidis, Jayanta Mukherji, Kimberly H. Burcar

F74. Management of a Thrombus Overriding a Patent Foramen Ovale in a Patient with Concomitant Pulmonary Embolism
Christian S. Balabanoff Acosta, John Carey, Richard A. Zack-Guasp, Srikar Jonna, Rafael Arciniegas Flores, Anna M. Schuerner, Arnaldo Vera-Arroyo, Oscar Aljure, Ricardo Martinez Ruiz, Roger Alvarez
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>F75</td>
<td>The Supertube: A Novel Lung Isolation Technique in Managing Bronchopleural Fistula</td>
<td>Kacie Bhushan, Carlee A. Clark, Stephanie Whitener</td>
</tr>
<tr>
<td>F76</td>
<td>Anesthetic Experience with MR-Guided Infusion of Adeno-Associated Virus Encoding Human Aromatic L-Amino Acid Decarboxylase (AADC) into the Midbrain of Pediatric Patients with AADC Deficiency</td>
<td>Josemine M. Carey, Gabriel E. Sarah, Nalin Gupta</td>
</tr>
<tr>
<td>F77</td>
<td>Superior Vena Cava in the Operating Room</td>
<td>Adaora Chima, Ahmed R. Khan</td>
</tr>
<tr>
<td>F78</td>
<td>Mediastinal Mass Necessitating Awake Cannulation for Cardiopulmonary Bypass</td>
<td>Grace Cunningham, George D. Gilkey</td>
</tr>
<tr>
<td>F79</td>
<td>A Recurrent Rarity: Our Patient with HAE and Acute Laryngeal Edema</td>
<td>Warren Fowler, Jeffrey D. White</td>
</tr>
<tr>
<td>F80</td>
<td>Cervical Spine Surgery with Neuromonitoring Under Total Intravenous Anesthesia in the Patient with a History of Stevens-Johnson Syndrome - How Did I Tailor My Anesthetic?</td>
<td>Daniel Garcia, Marina Moguilevitch, Sergey Pisklakov</td>
</tr>
<tr>
<td>F81</td>
<td>Persistent Delirium from Recurrent Infective Parotitis Exacerbated by Dexmedetomidine in the Trauma Intensive Care Unit</td>
<td>Steffin Golden, Caleb A. Harrell, Arturo Torres</td>
</tr>
<tr>
<td>F82</td>
<td>A Case of Acute Hypotensive Transfusion Reaction from Bradykinin Release Syndrome: A Possible Association with a Novel Ace Missense Mutation</td>
<td>Andrew Greenwald, Tarif Chowdhury, Joseph Hostyk, Ruth Landau, Peter Yim</td>
</tr>
<tr>
<td>F83</td>
<td>Anesthetic Management of Superimposed Pre-Eclampsia with Severe Features Complicated by Severe Mitral Stenosis Secondary to Rheumatic Heart Disease</td>
<td>Andrew Greenwald, Gene T. Yocum</td>
</tr>
<tr>
<td>F84</td>
<td>Neuroleptic Malignant Syndrome in Patient with a Saddle Pulmonary Embolus</td>
<td>Jonathan Kim, Genevieve Manahan, Albert Yen</td>
</tr>
<tr>
<td>F85</td>
<td>Awake Deep Brain Stimulation for the Treatment of Childhood Secondary Dystonia</td>
<td>Adeline Kim, Christopher Fjotland, Samuel Kiel</td>
</tr>
<tr>
<td>F86</td>
<td>Management of a Patient with a Large Anterior Mediastinal Mass and Syncope</td>
<td>Kathryn Klatman</td>
</tr>
<tr>
<td>F87</td>
<td>Cardiogenic Shock Requiring Veno-Arterial Extracorporeal Membrane Oxygenation Following Outpatient Cardioversion</td>
<td>Danielle Lovett-Carter, Maurice F. Joyce</td>
</tr>
<tr>
<td>F88</td>
<td>The Other Negative Pressure Cavity: A Rare Case of an Epidural-Induced Pleural Effusion</td>
<td>Genevieve Manahan, Jonathan Kim, Christine Choi, Kashif Khan</td>
</tr>
<tr>
<td>F89. Successful Management of a Pediatric Acute Aortic Dissection: A Case Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hiroki Matsushita, Hiroki Omiya, Kenji Uehara, Waso Fujinaka, Makoto Takatori</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| F90. Irreversible Anaphylaxis to Thymoglobulin in Living Donor Renal Transplantation  |
| William P. Qiao, Mark A. Weller |

| F91. Angiotensin-II for Treatment of Severe Refractory Distributive Shock Post Cardiac Bypass  |
| Patrick Savery, Marcela Hanakova |

| F92. Pancreatic Artery Pseudoaneurysm after Right Nephrectomy, Retroperitoneal Lymph Node Dissection with IVC Reconstruction: A Rare But Important Complication after Idiopathic Pancreatic Injury  |
| Opetomi O. Seriki, Peiman Lahsaei |

| F93. Central Diabetes Insipidus Due to Ketamine Infusion in a Patient on Veno-Venous Extracorporeal Membrane Oxygenation  |
| Juhee Sharma, Christin Kim |

| F94. The Case of the Traveling Tumor  |
| Jaspinder Sra |

| F95. Prolonged Unexpected Hypotension after Routine Combined Spinal Epidural in an Obese Parturient  |
| Aisha Ullah, Keith M. Vogt |

| F96. An Uncommon Cause of Lactic Acidosis in a Renal Transplant Recipient  |
| Judah Weiss, Anoop K. Chhina |

| F97. Intra-Operative Electroencephalogram Correlates of Post-Operative Neurocognitive Resilience in Older Adults  |
| Leah Acker, Miles Berger, Junhong Zhou, Lewis Lipsitz, Marty G. Woldorff, Heather E. Whitson |

| F98. Decreased Frontal Interhemispheric Synchronization: A Novel Evoked EEG Index That Correlates with Post-Operative Cognitive Dysfunction  |
| Dana Baron Shahaf, Gregory Hare, Avishai Ziser, Judith Aharon-Peretz, Tali Fisher, Gil Bolotin, Oved Cohen, Keren Worms, Yaron Berkovich, Goded Shahaf |

| F99. Differential Effects of Hypoxia on Cognitive Function Domains in Humans at Sea Level and High Altitude  |
| Odmara Barreto Chang, Philip Bickler, Leah Campbell, Frances Zoresnky |

| F100. Effects of Metabotropic Glutamate Receptor Blockers on Neonatal Rat Brain  |
| Tinatin Chabrashvili, Jesus Azocar, Roman Schumann, Ruben J. Azocar |

| F101. Influence of Perioperative Antibiotic Use on Postoperative Cognition  |
| Sarah Cotter, Paul E. Wischmeyer, John Hunting, Rebecca Y. Klinger, Joseph P. Mathew |
F102. Behavioral Sedation EEG Changes Induced by Dexmedetomidine Attenuated But Not Eliminated in a Novel Arda2a Knockout Mouse
Benjamin A. Harrison, Andrzej Wasilczuk, Paula Kwasniewska, Bo Ku, Juliette Palermo, Steven Thomas, Andrew Mckinstry-Wu
Kosaka Best of Meeting Late-Breaking Oral Presentation

F103. Modeling the Risk of Ionizing Radiation Exposure after Aneurysmal Subarachnoid Hemorrhage
Kevin W. Hatton, Greeshma Allareddy, Andrew Clark, Emily Slade, Ran Duan, Justin Fraser

F104. Cell-Type Specific Expression of Anesthetic Target Proteins Parallels Cell-Type Selective Effects of Isoflurane in Mouse Frontal Lobe in Vivo
Andrew Hudson

F105. Age and Comorbidity-Dependent Changes in the Electroencephalogram during Isoflurane General Anesthesia
Heiko Kaiser, Trevor Hirschi, Balthasar Eberle, David Reineke, Christian Rummel, Darren F. Hight

F106. Intravenous D-Amphetamine Reverses Dexmedetomidine-Induced Unconsciousness in Rats
Risako Kato, Olivia Mallari, Edlyn R. Zhang, Eric Melonakos, Morgan Siegmann, Christa J. Van Dort, Oluwaseun Johnson-Akeju, Ken Solt

F107. Risk Factors of Repeat Revascularization Surgery for Moyamoya Disease in Pediatric Cases: A Retrospective Study
Tomomi Komaba, Takahiro Ando, Kimitoshi Nishiwaki

F108. Age-Related EEG Features of Bursting Activity during Anesthetic-Induced Burst Suppression
Stephan A. Kratzer, Gerhard Schneider, Paul S. Garcia, Matthias Kreuzer

F109. Phenoxyalkoxypsoralen-1 (PAP-1), a Highly-Selective Kv1.3 Channel Blocker, Prevents Neuroinflammation and Postoperative Cognitive Decline in Vulnerable Mice
Mervyn Maze, Kit I. Lai, Rong N. Li, Sarah Saxena, Yosuke Uchida, Heike N. Wulff

F110. Extreme Sensitivity to Narcotics as an Indicator of Early Sepsis: A Case Series
Kevin J. Min

F111. The Operation of Repeated Ischemia and Reperfusion of Small Intestine in Mice Impaired the Series of Behaviors, which Mimicked the Important Features of Postoperative Delirium
Jinglan Mu, Xiaodong Liu, Yehong Dong, Yingying Fang, Kexuan Liu

F112. The Effects of Dietary Polyphenols on Emergence and Prompt Recovery from Anesthesia in Drosophila
Jaime Napan, Paul S. Garcia, Lelah Villalpando, Caleb Napan, Andrea Briseño, Richard E. Hartman

F113. Global Anticorrelated Resting-State Brain Activity Differentiates Awake, Anesthetized, and Early-Recovery States
F114. Electrophysiological Monitoring during Intracranial Aneurysm Surgery: Improving Test Validity by Accounting for the Treatment Paradox Affecting Signal Changes That Reverse with Intervention
Ferenc Rabai, Christopher Fox, Adam Polifka, Brian Hoh, Steven Robicsek, Christoph Seubert

F115. Case Report: The Anesthesia-Induced EEG in a 30-Year Old Cancer Patient Resembles That of an “Old Brain”
Laura A. Santa Cruz Mercado, Gladia C. Hotan, Hiroko Kunitake, Patrick L. Purdon, Emery N. Brown

F116. Lactic Acidosis during Glioblastoma Resection: Evidence of the Warburg Effect during Intraoperative Tumor Manipulation
Frank C. Vigil Gonzalez, Christian S. Balabanoff Acosta, Miguel Cobas, Alexander C. Fort

F117. Morphine and Fentanyl Delivered to Prefrontal Cortex of Behaving Mice Depress Breathing and Alter Neurotransmitter Concentrations
Xiaoying Zhang, Xiaoying Zhang, Aaron G. Baer, Kirsten Ferraro, Bailey Hargrove, Weidong Mi, Ralph Lydic, Helen A. Baghdoyan

F118. 3–4 Years Follow Up of HbA1C after Bariatric Surgery: A Single-Center Retrospective Analysis
Singh Nair, David Adams, Ellise Delphin

F119. The Impact of Psychopathological Conditions on In-Hospital Opioid Consumption and Pain Scores Following Laparoscopic Sleeve Gastrectomy for Obesity
Joe Cerasuolo, Roman Schumann, Mohammad Dahlawi, Amr Jijakli, Sajani Shah, Iwona Bonney, Sara Morrison

F120. Obesity’s Effect on Transpulmonary Pressure during Robotic Abdominal Laparoscopic Surgery
Collin Love, Serena Murphy, Max Breidenstein, Melissa Rafferty, Alexander F. Friend, Jason Bates, William G. Tharp, S. Patrick Bender

F121. Prevalence and Trends of Obesity and Severe Obesity in a Multi-Institution Pediatric Surgical Population: A Report from the Multicenter Perioperative Outcomes Group (MPOG)
Aleda Thompson, Jodi-Ann Oliver, Olubukola O. Nafiu

F122. Opioid-Free Anesthesia in Bariatrics: Does It Make a Difference?
Masha Zeltsman, Judith Aronsohn, Madina Gerasimov, Greg Palleschi, Oonagh Dowling

F123. Intraoperative Ventilation Management and Postoperative Pulmonary Complications in Patients at High Risk for Obstructive Sleep Apnea Undergoing Laparoscopic Bariatric Surgery
January K. Kim, Juan Fiorda-Diaz, Alan G. Esparza Gutierrez, Mahmoud Abdel-Rasoul, Sergio Bergese, Samuel Lindsey

F124. What Do the Trends Portend? a Comparative Analysis of 10 Year Data of Obstetric Admissions to Critical Care in a District General Hospital in England
Nisha Abraham-Thomas, Guanmei Luo, Gowry R. Simon

F125. Prenatal, Labor, and Postpartum Pain Are Predictors for Postpartum Depression Symptoms: A Prospective Observational Study
Grace Lim, Kelsea Lasorda, Lia M. Farrell, Ann McCarthy, Francesca Facco
F126. Supplemental Intravenous Anesthesia with Remifentanil for Open Fetal Surgery for Myelomeningocele Repair  
Benjamin J. Marsh, Jina Sinskey, Marla Ferschl, Mark Rollins

F127. Intra-Abdominal Pressure in Non-Labouring Preeclamptic vs Normotensive Patients Undergoing Caesarean Section: A Prospective Observational Study  
Asha Tyagi, Vandna Arora, Ankit Luthra, Mukundan Ramanujan

F128. Impact of an Interactive Music App on Pain Threshold, Temporal Summation, and Conditioned Pain Modulation in Healthy Volunteers  
Kristin L. Schreiber, Jasmine Gale, Peter Chai, Richard B. Boyer, Robert R. Edwards

F129. Incidence of and Risk Factors for Stiffness after Total Knee Arthroplasty: An Exploratory Analysis of a Prospective Cohort Study  
George Birch, Meghan A. Kirksey, Kara G. Fields, Ugonna N. Ihekweazu, Alejandro Gonzalez Della Valle, Michael Parks, Michael Cross, Kethy Jules-Elysee, Peter Sculco

F130. Remifentanil-Induced Hyperalgesia Is Not Prevented by Acetazolamide in Patients Undergoing Total Thyroidectomy  
Rodrigo Gutiérrez, Felipe Contreras, Alonso Blanch, Jose Ignacio Egaña, Daniela Bravo, Daniel Rappoport, Patricio Cabané, Patricio Gac, Francisco Rodriguez, Antonello Penna

F131. A Prospective Appraisal of Opioid Consumption in Patients Undergoing Total Knee Arthroplasty  
Ana C. Mavarez-Martinez, Sergio Bergese, Alicia Gonzalez-Zacarias, Alberto A. Uribe, Mahmoud Abdel-Rasoul, Nicoleta Stoicea

F132. Effects of Corticosteroid Injections on HbA1c Values in the Diabetic Population  
Moez Mithani, Singh Nair, Naum Shaparin, Andrew Duarte

F133. Persistent Postoperative Opioid Use Among U.S. Veterans  
Khodadad Namiranian

F134. Evaluation of NOL Index Variations after a Painful Stimulus Before and after a Stellate Ganglion Block in Patients with Upper Extremity Complex Regional Pain Syndrome: A Pilot Study  
Tanya Santella, Philippe Richebé, Nadia Godin, Véronique Brulotte

F135. Enol Compounds Are Protective in Cell Models of Cisplatinum Neurotoxicity  
Naum Shaparin, Brian Geohagen, Richard M. Lopachin

F136. Cannabinoid Modulation of the Analgesic Effects of Opioids on Acute Pain in Human Volunteers  
Paul A. Sloan, Shanna A. Babalonis, Michelle Lofwall, Paul Nuzzo, Laura Fanucchi, Sharon A. Walsh

F137. Sex Differences in Cannabis-Induced Modulation of Nociceptive Fiber Sensitivity  
Luka Vujaskovic, Kevin G. Jackson, Brent Yeung, Emily Blum, Julia C. Finkel

F138. Individualized Anesthesia and Surgical Risk Assessment: A Multi-Center Study  
Joshua A. Bloomstone, Jessica Curran, Tania Haddad, John Jordan, Rafael Noriega, Jennifer Pedersen, Kelli Duarte, Deb Farley, James Steinshouer, Kellie Kieffer, David Sheinbein
<table>
<thead>
<tr>
<th>F139. Sedation Complications by Non-Anesthesia Providers May Be Related to Standards of Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacquelyn Francis, Vilma Joseph</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F140. Safety and Efficacy of Interscalene Blocks Performed by General Anesthesiologists for Total Shoulder Arthroplasty in a Rural Community Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kathleen Johnson, Hannah M. Harris, David Vaneenenam, Abigail Muscoreil, Daniel J. Forest, Yvon F. Bryan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Souvik Maitra, Dalim K. Baidya, Sulagna Bhattacharjee, Rahul K. Anand, Rajeshwari K. Subramaniam</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F142. Simulated Handoffs in Anesthesia using An Automatically Generated Handoff Tool from the Electronic Medical Record: A Randomized Controlled Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christina R. Miller, Bommy H. Mershon, Allan Gottschalk, Adam Schiavi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F143. Value of Prognostic Nutritional Index, Early Enteral Jejunostomy Tube Feeding, and Perioperative Epidural Analgesia in Improving Patients Short and Long-Term Survival after Gastro-Esophageal Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimitar G. Tonev, Latchezar Djongov, Alexander Shahov, Todor Kondurzhiev</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F144. Real Time Ultrasound Improves Accuracy of Caudal Block in Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam C. Adler, Craig A. Belon, Arvind Chandrakantan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F145. Anesthetic Management of an Infant with Type-IV Laryngotracheo-Esophageal Cleft and Goldenhar Syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haruki Akiizumi, Saeko Takatsuji, Tetsuro Kagawa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F146. Preoperative Pulmonary Function Test Results Are Not Associated with Postoperative Intubation in Children Undergoing Posterior Spinal Fusion for Scoliosis: A Retrospective Observational Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicholas Burjek, Kristen Rao, John Wieser, Michael A. Evans, Erin Toaz, Lauren Balmert, Narasimhan Jagannathan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F147. Introduction of an Enhanced Recovery Pathway Results in Decreased Length of Stay for Patients with Adolescent Idiopathic Scoliosis Undergoing Posterior Spinal Fusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicholas Burjek, Kristen Rao, Lauren Balmert</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F148. Analysis of Pre-Procedural Psychosocial and Anesthetic Determinants in Adolescents Undergoing PICC Line Placement with Anesthesia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arvind Chandrakantan, Andrew Jensen, Michael A. Pratt, Adam Adler, Kamlesh Kukreja</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F149. General Anesthesia in a Boy with Autism, Mitochondrial and MTHFR Disorder, and a Family History of Malignant Hyperthermia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Goldfinger, Carlyann Miller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F150. Non-Invasive Venous Waveform Analysis (NIVA) for Volume Assessment in Children Undergoing Craniosynostosis Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jenna Helmer Sobey, Bret Alvis, Kyle Hocking, Colleen Brophy</td>
</tr>
<tr>
<td>Poster</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>F151.</td>
</tr>
<tr>
<td>F152.</td>
</tr>
<tr>
<td>F153.</td>
</tr>
<tr>
<td>F154.</td>
</tr>
<tr>
<td>F155.</td>
</tr>
<tr>
<td>F157.</td>
</tr>
<tr>
<td>F158.</td>
</tr>
<tr>
<td>F159.</td>
</tr>
<tr>
<td>F160.</td>
</tr>
<tr>
<td>F162.</td>
</tr>
</tbody>
</table>
Nikhil Chawla, Ranjit Deshpande, Elizabeth Cohen, Claudia Fernandez-Robles, Nikhil Chawla, Vincent Do, Ramesh Batra

F164. A Novel Method of Crosslinking Mass Spectrometry Identifies Distinct Alpha 2 Macroglobulin Crosslinks in Pathological Coagulation
Nathan Clendenen, Rachel Henderson, Nathaen Weitzel, Angelo D'Alessandro, Kirk Hansen

F165. A Retrospective Quality Improvement Analysis of Post-Operative Complications Requiring Medical Emergency Team Activation in Complex Surgical Patients
Derek Dillane, Cherese Lapere

F166. Opioid Sparing Anesthesia in the Perioperative Setting: A Case Control Study
Angela S. Forbes

F167. Impact on Length of Stay and Other Episode of Care-Related Metrics for a Non-Narcotic Approach to Robot-Assisted Radical Cystectomy
Morgane Giordano, Francois Audenet, Daniel Katz, Jonathan Gal, Daniel Gainsburg, Jia Huang, John Sfakianos, Alan Sim

F168. Team Consistency and Patient Outcomes in the Operating Room: A Retrospective Analysis
Cullen Jackson, Ariel Mueller, Jennifer P Stevens

F169. The Effect of Femoral Nerve Block and Local Infiltration Analgesia on the Postoperative Pain after Total Knee Arthroplasty
Yusuke Kasai, Yoshiaki Terao, Maki Ono, Ayako Shimasaki, Makito Oji, Natsuko Oji, Makoto Fukusaki, Tetsuya Hara

F170. Use of BIS as a Recall Probability Monitor
Yaman Kherallah, Katherine Palmer, Christopher Awounou, Michael O’Connor, David Glick

F171. Enhanced Recovery after Cardiac Surgery in Minimally Invasive Mitral Valve Replacement: Evaluation of Postoperative Pain Management, Opioid Consumption and Length of Stay
Michael Kim, Yaroslava Longhitano, Christian Zanza, Steven Haddy, Tara Humphrey, Zerlina Wong, Carol J. Peden

F172. The Effect of Perioperative Use of Normal Saline Solution As Compared to Balanced Crystalloids on Graft Function in Patients Undergoing Living Donor Kidney Transplantation
Kerstin Kolodzie, Eshandeep S. Boparai, Ozlem S. Cakmakkaya, Mehdi Tavakol, John Feiner, Claus U. Niemann

F173. Predictive Value of Non-Invasive Cardiac Testing for Preoperative Coronary Revascularization and Adverse Cardiac Events 30-Days Post Kidney Transplant
Nicholas V. Mendez, Yehuda Raveh, Vadim Shatz, Ramona Nicolau-Raducu
F174. Monitored Anaesthesia Care for Radiofrequency Ablation: Our Experience
Akhilesh Pahade, Itee Chowdhury, Ashita Mowar

F175. Anesthetic Management of a Patient with Anaplastic Thyroid Carcinoma Compressing the Internal Carotid Artery Accompanied by Recurrent Shock
Soon Ji Park, Ju Yeon Park, Hyun-Su Ri

F176. Outcome of Esophageal Doppler Monitoring (EDM) during Perioperative Management of Patients Undergoing Robot-Assisted Laparoscopic Prostatectomy (RALP)
Pariza M. Rahman

F177. Association Between Severity of Perioperative Acute Kidney Injury and Progression of Chronic Kidney Disease Following Non-Cardiac Surgery
Mohammad Rasouli, Vijay Krishnamoorthy, Karthik Raghunathan, Thor E. Long, Gisli H. Sigurdsson, Martin I. Sigurdsson

F178. Effects of Anticholinesterase Reversal Under General Anesthesia on Postoperative Cardiovascular Complications: A Retrospective Cohort Study
Denys Shaydenfish, Flora T. Scheffenbichler, Barry J. Kelly, Anne-Louise Lihn, Hao Deng, Anahita Nourmahnad, Xinling Xu, Timothy Houle, Matthias Eikermann, Stuart A. Forman

F179. Whole System Immune Phenotyping of Male and Female Mice Reveals Striking Sex Similarities and Differences in the Immune Response to Injury
Vivianne Tawfik, Quentin Baca, Edward A. Ganio, Elena Haight, Anthony Culos, Sajjad Ghaemi, David Clark, Nima Aghaeepour, Brice Gaudilliere

F180. Incidence and Risk Factors of Prolonged Tracheal Extubation after General Anesthesia
Andrea Vannucci, Kevin Prifti, Anne Sebastiani, Isabella Rossi, Daniel P. Lander, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

F181. Clinical Application of Quadratus Lumborum: A Systematic Review
Zhaosheng Jin, Jiaxin Liu, Ru Li, Jun Lin

F182. Change in Transcutaneous pO2 after Popliteal Catheter Placement
Sara Anwar, Sophia Koessel, Carolyn Thai, Robert Maniker

F183. Feasibility and Efficacy Trial Comparing 0.25% Bupivacaine Versus a Mixture of 0.25% Bupivacaine and 0.65% Liposomal Bupivacaine in Five Compartment Infiltration Technique for Patients Undergoing TKA
Brian R. Aviles, Anis Dizdarevic, Singh Nair

F184. A Comparison of the Analgesic and Respiratory Effects of Supraclavicular and Interscalene Blocks for Shoulder Surgery: Systematic Review and Meta-Analysis
Nasir Hussain, Michael Essandoh, Tristan Weaver, Peter Rose, Colin McCartney, Faraj Abdallah

F185. Compartment Syndrome Pain Breaks through Peripheral Nerve Block
Jacob M. Loyd, Matthew Lyman
F186. Merging Physics with Anesthesia: The Sota Omoigui Short Needle Technique for Interventional Procedures
Sota Omoigui

F187. To Evaluate the Efficacy of USG Guided Transversus Abdominis Plane Block Analgesia with Ropivacaine or Levo-Bupivacaine for Postoperative Pain Management in Laparoscopic Donor Nephrectomy
Sandeep Sahu, Zakia Saeed, Gaurav Sindwani, Sanjay Dhiraaj, Cm Pandey

F188. Ultrasound Guided Stellate Ganglion Block for the Treatment of Electrical Storm Refractory to Percutaneous Ablation: A Case Report
Estuardo J. Saravia Fernandez, Paramvir Singh

F189. Ambulatory Continuous Femoral Nerve Block Drastically Reduces Hospital Stay, SNF Admission, Readmissions for Pain and Opioid Prescriptions after TKA and THA
Cameron Smith, Barys Ihnatsenka, Hari K. Parvataneni, Justin T. Deen, Chancellor F. Gray, Andre P. Boezaart

F190. Perineural Membranes Revisited: A Thus Far Undescribed Internal Epineurium?
Cameron Smith, Richa Wardhan, Andre P. Boezaart, Anna Server, Linda Le-Wendling, Miguel A. Reina

F191. Meta-Analysis and Review of Transversus Abdominis Plane Block with Liposomal Bupivacaine
Jagan Devarajan, Kenneth Cummings

F192. Efficacy of the Erector Spinae Plane (ESP) Block for Lumbar Spinal Surgery: A Retrospective Study
Hironobu Ueshima, Fumihiro Niihara, Mayumi Inagaki, Hiroshi Otake

F193. The History and Trend of the Bier Block
Ying Ye, Christina L. Jeng, Chang Park

F194. Impact of Narcotic Dosing on Pediatric Post Operative Cleft Palate Patients
Peggy Seidman, Samuel Boas, Ryan Nazemian, Carlyann Miller, Anand Kumar, Corinne E. Wee, Brian Paoloetti

F195. Feasibility of a Novel Point of Care Ultrasound (PoCUS) Tool to Evaluate High Risk Obstructive Sleep Apnea (OSA) Patients in the Perioperative Setting: A Prospective Cohort Study
Mandeep Singh, Arvind Tuteja, Nayeemur Rahman, Stavros G. Memtsoudis, Stephen Haskins, Vincent Chan

F196. A Novel Risk Index for Predicting Sleep Apnea in Chronic Pain Patients on Opioids
Jean Wong, Clodagh Ryan, Geoff Bellingham, Gerald Lebovic, Mandeep Singh, Frances F. Chung

F197. Survey of Program Directors on the Use of Simulation in Training in Regional Anesthesiology Fellowship Training
Garrett W. Burnett, Anjan Shah, Christina L. Jeng

F198. Increased Peripheral Venous Pressures (PVP) Are Not the Same? (Impact of Different Physiological Challenges on PVP)
Anna-Maria E. Eid, Abdallah Yassin, Mona A. Ganash, Mai Khairy, Somaia A. Mohamed, Samar Seleem, Aymen Alian
F199. Description of a Novel Simulation Scenario Combining An Osce-Type Comprehensive Pain Assessment and a Crisis Scenario
Sophia Koessel, Robert Maniker

F200. Factors Influencing the Use of Social Media by Anesthesiologists
Clyde Matava, Nan Gai, Monica Caldeira

F201. What Counts? Comparison of Manual Palpation, Mechanomyography, Acceleromyography and Electromyography for Twitch Assessment
Kelly Michaelsen, Logan Bussey, Srdjan Jelacic, Kei Togashi, Bala Nair, Justin Hulvershorn, T. Andrew Bowdle
Kosaka Best of Meeting Late-Breaking Oral Presentation

F202. Variability in Examining Residual Neuromuscular Blockade after the Use of Neuromuscular Blocking Agents: A Systematic Review of Randomized Controlled Trials
Amit D. Raval, Jennifer Uyei, Vamshi Ruthwik Anupindi, Cheryl P. Ferrufino, Andreas Karabis, Diana Arper, Lori D. Bash, Sorin Brull

F203. Variation of Perfusion Index (Pi) in Different Fingers of Two Hands in Healthy Volunteers: An Observational Study
Mukesh Tripathi, Vijay Adabala, Nilay Tripathi

F204. Development of a Head-Mounted Holographic Needle Guidance System for Enhanced Ultrasound Guided Regional Anesthesia
Julian Wiegelmann, Clyde Matava, Paul McHardy, Stephen Choi, Oskar Singer, Lilia Kaustov, Fahad Alam

F205. Effect of Ventilatory Parameters on the Measurement of Arterial Pressure-Derived Stroke Volume Variation in Mechanically Ventilated Surgical Patients
Soo Bin Yoon, Hyung-Been Yhim, Hyung-Chul Lee, Min Hur, Chul-Woo Jung

Rolf D. Nordmeier, Theresa Kuhlmann, Hendrik Booke

F207. Intraoperative CPR in Prone Position. To Turn Or Not To Turn the Patient in Supine Position?
Rolf D. Nordmeier, Theresa Kuhlmann, Hendrik Booke, Oliver Danzeisen

F208. The Impact of Early Exposure To High-Fidelity Simulation On The Developing Anesthesiologist: A Qualitative Pilot Study
Dylan Bard, Gavyn Ooi, Michael Esterlis, Elaine Kilmartin, Neeru Rattan
The IARS, AUA, SOCCA and eSAS Scholars’ Program is for early-stage scholars in anesthesiology who are looking for best practices in adapting to the rapidly changing world of academic anesthesia and medicine. Through innovative teaching approaches, scholars will receive the much-needed skills they desire while interacting with peers and mentors. Participation in the Scholars’ Program requires a separate $50 fee and pre-registration. Visit the Registration Desk for more information.

FRIDAY, MAY 17

5:30 pm – 6:30 pm  
Square Victoria  
Scholars’ Program Mentoring and Networking Reception

SATURDAY, MAY 18

9:30 am – 9:45 am  
Av. Viger  
Introduction  
Julie K. Freed, MD, PhD, Medical College of Wisconsin; Aaron Norris, MD, PhD, Washington University School of Medicine

9:45 am – 10:45 am  
Av. Viger  
Establishing Independence, Building an Academic Career through Innovations in Research and Education  
Vivianne Tawfik, MD, PhD, Stanford University School of Medicine; Edward Sherwood, MD, PhD, Vanderbilt University Medical Center; Sean Mackey, MD, PhD, Stanford University School of Medicine; and Colleen Koch, MD, MS, MBA, FACC, Johns Hopkins School of Medicine

10:55 am – 12:00 pm  
Av. Viger  
Navigating and Conducting Pragmatic Clinical and Translational Trials for Research  
Moderated by Kristin L. Schreiber, MD, PhD, Brigham and Women’s Hospital; Harvard Medical School  
Vafi Salmasi, MD, Stanford University School of Medicine; Hance Clarke, MD, PhD, University of Toronto; and Daniel King-Wai Low, MD, MB BS, Seattle Children’s Hospital

2:30 pm – 3:30 pm  
Promoting Your Career Advancement through Research and Education  
Moderated by Michael Montana, MD, Washington University School of Medicine  
Ronald B. George, MD, FRCP, Dalhousie University; and Alex Evers, MD, Washington University School of Medicine

12:00 pm – 1:00 pm  
Lunch

2:00 pm – 5:00 pm  
Av. Viger  
Preparing for the Future of Anesthesiology Now  
Moderated by Kate Gurba, MD, PhD, Washington University School of Medicine  
Beverley A. Orser, MD, PhD, FRCPC, University of Toronto; and George A. Mashour, MD, PhD, University of Michigan Medicine

3:30 pm – 4:00 pm  
Av. Viger  
Network and Collaboration  
Moderated by Jamie Privratsky, MD, PhD, Duke University Medical Center

4:00 pm – 5:00 pm  
Av. Viger  
Networking and Collaboration  
Moderated by Jamie Privratsky, MD, PhD, Duke University Medical Center

5:15 pm – 6:30 pm  
eSAS Business Meeting

SUNDAY, MAY 19

2:00 pm – 6:00 pm  
Rue Mansfield  
Leadership Workshop: Emotional Intelligence and the Innovative Leader  
Jean Ann Larson, FACHE, LFHIMSS, FIISE, UAB Health System and School of Medicine and Duane Wilson, University of Notre Dame
SelfStudyPlus
Master and retain what you need to succeed!
Go to selfstudy.plus and select 3 months of residents membership or 20 CME credits. Enter the appropriate code from below on the checkout form and get started!

Special Offer!
Only $99 during IARS Annual Meeting May 17 – 20! Sign up at selfstudy.plus

Residents get 3 months
Physicians earn 20 CME credits

19SSP99 CODE
19CME99 CODE

IARS360
Your one-stop digital destination for
- Anesthesia & Analgesia and A&A Practice articles
- Annual meeting session videos and abstracts
- CME

Get your free IARS member access now at IARS360.org

Powered by SelfStudy360
A: AUA POSTER SESSIONS
B: SOCCA POSTER SESSION
C: IARS POSTER SESSIONS

Y: SOCCA YOUNG INVESTIGATOR AWARD SESSION
K: KOSAKA BEST OF MEETING AWARD SESSION
SAB I-IV: AUA SCIENTIFIC ADVISORY BOARD ORAL SESSION

Aali, M..................................................................E38
Abdelghany, S..................................................A3, C7, E14
Abdel-Rasoul, M..................................................F131, E159, F123
Abdollahi, M. ......................................................E5
Abou-Setta, A..........................................................F20, K31
Abrams, B. ......................................................B163, E42
Abreu, S. ..............................................................A12, C12, E19
Acker, L. .................................................................F97
Adabala, V. ..........................................................F203
Adams, D. ..............................................................F63, D11, F118
Adedoyin, P. ..........................................................B178, E124
Adelmann, D. ..........................................................E27
Adler, A. ..............................................................B189, E146, F144, F148, F159
Afonso, A. ..............................................................F68
Agarwal, A. ..............................................................E178
Agarwala, A. ..........................................................A86, E142, E102
Aggarwal, A. ............................................................F49
Aghaeepour, N. ..................................................B197, D161, K15, F179
Agra, L. .................................................................A12, C12, E19
Agudelo-Jimenez, R...........................................B196, D160, K14
Aharon-Perey, J. ..................................................F98
Ahmed, M. ..............................................................F52
Ahumada, L. ..........................................................A90, D146, E149
Aina, T. .................................................................C99, E94
Akeju, O. .................................................................E176
Akizumi, H. .............................................................F145
Akiyama, K. ..............................................................A116, E199, D25
Akshet, S. .................................................................C61
Alagumalai, K. ......................................................E188
Alam, F. .................................................................F204
Alden, E. .................................................................E159
Aleksandrovich, S. ..............................................D123
Aletti, F. .................................................................D206
Alhajeri, A.............................................................C117, E112
Al-Hammadi, N. ..................................................D137, K18
Al-Hasani, R. ..........................................................D135
Alian, A. .................................................................B202, C141, D198, E198, F198
Alibhai, H. ...............................................................C20
Aljuri, O. .................................................................C76, F74, C112
Alkayed, N. ...............................................................A68
Allan, L. .................................................................C58
Allareddy, G. ..........................................................C118, F103
Almehlisi, A. ...........................................................C48, D48
Almeida-Chen, G. ..................................................E137
Almualim, M. ..........................................................C70, F66
Almuqati, R. .............................................................C71
Al-Salmi, H. ............................................................D162
Altaweel, L. ............................................................C40, F44
Althoff, F. ...............................................................D163
Alvarado, C. ............................................................B203, C144, D195, K16
Alvarez, R. ............................................................C76, F74
Alvey, N. .................................................................D72
Alvis, B. .................................................................F150
Amin, M. .................................................................D7
Amini, S. .................................................................E109
Aminian, A. .............................................................E36
Amonda, A. ............................................................D128, K5
Anand, R. .................................................................F141
Anderson, R. ..........................................................B156, E32
Anderson, T. ......................................................B195, D164, E74, B192, F153
Ando, T. .................................................................F107
Andoh, T. .................................................................E9, D6
Andreae, M. ............................................................A104, E168, E169
Andropoulos, D. ..................................................A69, C122, D119
Ang, S. .................................................................B183, C125, D136, K6, SABII Y
Angelidis, I. ............................................................F73
Angst, M. .................................................................B197, D161, K15, A106
Ansorminho, J. ..........................................................D192, K22
Antunes, M. ..............................................................A12, C12, E19
Anupindi, V. ..............................................................A119, C145, F202
Anwar, S. .................................................................F182
Aranake-Chrisinger, A. ...........................................D137, K18
Arciniegas Flores, R. ...............................................C76, F74, D74, C74, D73, C75, E72
Arekat, D. ..............................................................C25, E40, C1, D1
Argalias, M. ..............................................................C46
ARGENZIANO, M. ................................................. B170, F62
ARIS, F. ....................................................... F160
ARIYO, R. ........................................................ E25
ARMOUR, S. .................................................. E71
ARMOUR, T. .................................................. E71
ARMSTRONG, R. ............................................. F160
ARONSOHN, J. ............................................ A73, C127, F122, E93, C110, D102
ARORA, H. ..................................................... E78
ARORA, V. ..................................................... F127
APER, D. ....................................................... A119, C145, F202
ARUMUGAM, V. ............................................ E188
ARZUA, T. ....................................................... E104
ASEFFA, T. ..................................................... F27
ASHRAF, M. .................................................... F117
ASHRAFI, B. .................................................. A10, D14, K10, SABI
ASLAKSON, R. .................................................. F42
ASWAR, S. ..................................................... A30, F35
ATABAI, K. ..................................................... C59
ATKINSON, J. ................................................... D108
ATO, S. ........................................................... F161
AUDENET, F. ................................................... F167
AUSTIN, T. .................................................. E147, D145, D150, D20
AUTHIER, S. .................................................. A14 F15
AVEY, M. ......................................................... E54
AVIDAN, M. .................................................. B184, E135, D137, K18, D165, D189, E113, E35, A63, D111
AVILES, B. ..................................................... F183
AVRAHAM, S. .................................................. D130
AVRAM, M. .................................................... A20, E28
AWAD, H. ....................................................... B157
AWAL, M. ....................................................... E103
AWAN, A. .......................................................... F1
AWOUNOU, C. .............................................. F170, E132
AYOB, F. ......................................................... D166
AZIMI, N. ......................................................... E5
AZIZ, M. ........................................................... B198, D175
AZOCAR, J. ..................................................... F100
AZOCAR, R. ..................................................... F100
AZZAM, N. ....................................................... D208
BAAKLINI, L. ................................................... F21
BAALACHANDRAN, R. ........................................ E6
BABA, H. ........................................................ F5
BABALONIS, S. .................................................. F136
BABAZADE, R. .................................................. D91
BABIN, D. ....................................................... C41, D44
BACA, Q. ........................................................... F179
BACIGALUPO LANDA, A. ..................................... C16, F23
BACKSTEIN, D. ............................................... A3, C7, E14
BACON, J. ......................................................... C51, C36
BAER, A. .......................................................... F117
BAER, C. ........................................................... A50, E51
BAGHDayan, H. ............................................... F117
BAHRAMI, T. ................................................... E85
BAI, X. ............................................................ E104
BAIDYA, D. ..................................................... F141, E39
BAILEY, C. ....................................................... C21
BAIN, J. ......................................................... B155, D22, K25, SABI
BAIRD, R. ......................................................... E154
BAISSARI, M. .................................................... D8
BAKER, A. ......................................................... E105
BAKER, M. ......................................................... D92
BALABANOFF ACOSTA, C. ................................ C76, F74, D74, F116, C74, D73, C75, E72
BALCOZ, R. ..................................................... B164
BALMERT, L. ..................................................... F147, F146
BALZER, C. ....................................................... E201
BAMBOOS, N. ................................................... B195, D164
BAN, M. ............................................................. D196
BANACK, T. ..................................................... A25, F25
BANGALORE, R. ................................................ E196, D54
BANNO, A. ......................................................... D26
BARAJAS, M. ................................................... A95, C11, F9
BARCLAY, W. .................................................... A71
BARD, D. ......................................................... A46, C66
BARKER, A. ..................................................... F46
BARNES, J. ....................................................... E197
BARON SHAHAF, D. ........................................ F98, D109, E105
BARETO CHANG, O. ........................................ F99
BARRON, C. ..................................................... F45
BARSOUM, G. ................................................... E100
BARSOU, S. ...................................................... F8, D75, E100, E4
BARTELS, K. ..................................................... A99, A111, E192
BARTZ, R. ......................................................... A33, C33, D159, K20, C132, D157, K30, C138, D178
BASAK, J. ......................................................... B161, C22, D32, K7, SABI
BASBAUM, A. .................................................. D106, K27
BASH, L. ......................................................... A41, C65, D61, A119, C145, F202
BASNER, M. ...................................................... E113
BASTIEN, A. ..................................................... A87, E143
BATEMAN, B. ................................................... E165
BATES, J. ......................................................... F120, A100, F163
BATRA, R. ........................................................ E39
BAUMGARTEN, G. ............................................. A26, C17
BAXTER, M. ..................................................... F113, E110
BEASLEY, E. ..................................................... F71
BEATTIE, W. ..................................................... E170, D177
BECK, W. ........................................................ D38
BECK-SCHIMMER, B. ....................................... F11, E164
BEDELL, V. ...................................................... B154, B150, D15
BEHRENDT, N. ............................................... A117, C142, D200
BEHRENS, M. .................................................... C31
BEHZADI, M. .......................................................... E5
BELANI, K. ....................................................... E33, D30
BELLAOUsov, K. ................................................ E179
BELLINGHAM, G. ............................................. F196
BELLOMY, M. .................................................. A36, C34, D42
BELON, C. ......................................................... F144
BELOT, Q. ......................................................... D181
BEN ABDALLAH, A. ........................................... B184, E135, F53, A63, D111
BENDER, S. ..................................................... F162, F120
<table>
<thead>
<tr>
<th>B</th>
<th>Bengali, S.</th>
<th>A17, C14, D21</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Ben-Jacob, T.</td>
<td>D208</td>
</tr>
<tr>
<td>B</td>
<td>Bennett, D.</td>
<td>D11</td>
</tr>
<tr>
<td>B</td>
<td>Bennett, S.</td>
<td>A32, C30, F40</td>
</tr>
<tr>
<td>B</td>
<td>Berg, M.</td>
<td>E29</td>
</tr>
<tr>
<td>B</td>
<td>Berg, N.</td>
<td>D37</td>
</tr>
<tr>
<td>B</td>
<td>Bergbower, E.</td>
<td>E158</td>
</tr>
<tr>
<td>B</td>
<td>Berger, J.</td>
<td>D84</td>
</tr>
<tr>
<td>B</td>
<td>Berger, S.</td>
<td>E117</td>
</tr>
<tr>
<td>B</td>
<td>Bergese, S.</td>
<td>F39, E116, E194, F123, F131</td>
</tr>
<tr>
<td>B</td>
<td>Bergonzini, K.</td>
<td>E106</td>
</tr>
<tr>
<td>B</td>
<td>Berkovich, Y.</td>
<td>F98</td>
</tr>
<tr>
<td>B</td>
<td>Berkowitz, D.</td>
<td>C13, D19, K4, Y</td>
</tr>
<tr>
<td>B</td>
<td>Berman, D.</td>
<td>D193, K23</td>
</tr>
<tr>
<td>B</td>
<td>Bernstein, M.</td>
<td>D106, K27</td>
</tr>
<tr>
<td>B</td>
<td>Berra, L.</td>
<td>C4</td>
</tr>
<tr>
<td>B</td>
<td>Berry, R.</td>
<td>B164</td>
</tr>
<tr>
<td>B</td>
<td>Bertolizio, G.</td>
<td>A30, F35</td>
</tr>
<tr>
<td>B</td>
<td>Besselink, M.</td>
<td>D69</td>
</tr>
<tr>
<td>B</td>
<td>Best, M.</td>
<td>C23, F36</td>
</tr>
<tr>
<td>B</td>
<td>Bethell, J.</td>
<td>B180, D134</td>
</tr>
<tr>
<td>B</td>
<td>Bhananker, S.</td>
<td>E23</td>
</tr>
<tr>
<td>B</td>
<td>Bhansali, S.</td>
<td>E200</td>
</tr>
<tr>
<td>B</td>
<td>Bharti, S.</td>
<td>A8, D10</td>
</tr>
<tr>
<td>B</td>
<td>Bhate, A.</td>
<td>C86</td>
</tr>
<tr>
<td>B</td>
<td>Bhate, S.</td>
<td>A8, D10, D11</td>
</tr>
<tr>
<td>B</td>
<td>Bhattacharjee, S.</td>
<td>C72, E73</td>
</tr>
<tr>
<td>B</td>
<td>Bhavaraju, A.</td>
<td>D38</td>
</tr>
<tr>
<td>B</td>
<td>Bhullar, R.</td>
<td>A81, C123, D129</td>
</tr>
<tr>
<td>B</td>
<td>Bhushan, K.</td>
<td>F75</td>
</tr>
<tr>
<td>B</td>
<td>Bhuvaneswaran, M.</td>
<td>B183, C125, D136, K6, SABIV Y</td>
</tr>
<tr>
<td>B</td>
<td>Bickler, P.</td>
<td>F99</td>
</tr>
<tr>
<td>B</td>
<td>Bieber, M.</td>
<td>F10</td>
</tr>
<tr>
<td>B</td>
<td>Bigelow, G.</td>
<td>A57, D65</td>
</tr>
<tr>
<td>B</td>
<td>Bihrmeyer, N.</td>
<td>B155, D22, K25, SABII</td>
</tr>
<tr>
<td>B</td>
<td>Billiar, T.</td>
<td>E206, A107, E177</td>
</tr>
<tr>
<td>B</td>
<td>Billings, F.</td>
<td>F29</td>
</tr>
<tr>
<td>B</td>
<td>Bilodeau, M.</td>
<td>D68</td>
</tr>
<tr>
<td>B</td>
<td>Bingham, A.</td>
<td>A22, D27</td>
</tr>
<tr>
<td>B</td>
<td>Bingham, D.</td>
<td>D38</td>
</tr>
<tr>
<td>B</td>
<td>Birch, G.</td>
<td>F129</td>
</tr>
<tr>
<td>B</td>
<td>Birukov, K.</td>
<td>B165, D204, D3, E205, E6</td>
</tr>
<tr>
<td>B</td>
<td>Birukova, A.</td>
<td>B165, D204, D3, E205, E6</td>
</tr>
<tr>
<td>B</td>
<td>Bittner, E.</td>
<td>C4</td>
</tr>
<tr>
<td>B</td>
<td>Bivalacqua, T.</td>
<td>E31</td>
</tr>
<tr>
<td>B</td>
<td>Blackstone, E.</td>
<td>A19, E26</td>
</tr>
<tr>
<td>B</td>
<td>Blaine, K.</td>
<td>E162, E13</td>
</tr>
<tr>
<td>B</td>
<td>Blakely, M.</td>
<td>E140</td>
</tr>
<tr>
<td>B</td>
<td>Blanch, A.</td>
<td>F130</td>
</tr>
<tr>
<td>B</td>
<td>Bland, B.</td>
<td>E115</td>
</tr>
<tr>
<td>B</td>
<td>Blank, R.</td>
<td>D117</td>
</tr>
</tbody>
</table>

| Blauffuss, G. | E119 |
| Blobner, M. | D114 |
| Bloomstone, J. | A83, F138 |
| Blum, E. | F137, E125 |
| Boas, S. | F194 |
| Boating, A. | C24, F37 |
| Boehm, O. | A26, C17 |
| Boezzaart, A. | F190, D183, D184, D185, E189, E190, F189 |
| Bolotin, G. | F98 |
| Boltunova, A. | C21 |
| Bombardieri, A. | D165 |
| Bonadonna, D. | A33, C33 |
| Boncyk, C. | F38 |
| Bong, C. | E155 |
| Bonini, M. | F11 |
| Bonney, I. | A72, F119 |
| Boparai, E. | A102, F172 |
| Bora, V. | A35, C54, E47 |
| Borrell-Vega, J. | F39, E159 |
| Bosch, N. | A39, C60, E48 |
| Bosch, W. | D172 |
| Bose, R. | A12, C12, E19 |
| Bosnjak, Z. | E104 |
| Botros, J. | D190 |
| Bottiger, B. | A33, C33 |
| Bouchard-Dechene, V. | C41, D44, D28 |
| Bowd, T. | F201, K33 |
| Bower, M. | E50 |
| Boyd, J. | C13, D19, K4, Y |
| Boyer, R. | A79, F128 |
| Boysen, P. | A49, C67, D58, E7, A43, C69, D62 |
| Bracken, D. | E179 |
| Bradley, S. | C57 |
| Brady, K. | A69, C122, D119 |
| Brahe, M. | A56 |
| Fragana, N. | B177 |
| Brallier, J. | F113 |
| Brambrink, A. | A60, D103, K3, SABIV |
| Brandon, A. | B164 |
| Brannigan, G. | B151, E20 |
| Bravo, D. | F130 |
| Breidenstein, M. | F162, F120 |
| Breig, J. | B150, D15 |
| Brennan, K. | C73 |
| Brennen, C. | E102 |
| Breslin, K. | E123 |
| Breyer, K. | C111 |
| Broche, C. | D112 |
| Bricofo, A. | F112 |
| Brookhart, M. | C131, E171 |
| Brophy, C. | F150 |
| Broughton, K. | E7 |
| Brown, E. | C121, F115, D116 |
Brown, F. ............................................................. D29
Browndyke, J. ...................................................... B199, D188, A59, C115, D104, K26, SABIV Y
Bruguera, C. ........................................................ C25, E40, C1, D1
Brull, R. ............................................................... E182, D174
Brull, S. ............................................................... A119, C145, F202
Brulloste, V. ........................................................ F134
Brummerer, E. ...................................................... E96
Brundidge, D. ...................................................... C77
Brunker, P. .......................................................... C13, D19, K4, Y
Bruner, D. ........................................................... B203, C144, D195, K16
Bruner, S. ........................................................... A95, C11, F9
Bryan, W. .............................................................. C138, D178, D159, E205, D204, K20, C132, D157, K30
Bryan, Y. ............................................................... F140, E186
Bryson, G. ........................................................... F71
Bryson-Cahn, C. ................................................ B194, C130, D158, K19, SABII
Budde, A. ............................................................. C2
Bughraa, N. ........................................................ A98, C136, E160
Bullock, M. ........................................................ E186
Bunning, T. .......................................................... B199, D188, A59, C115, D104, K26, SABIV Y
Burcar, K. ........................................................... F73, D41, F27
Burdick, K. .......................................................... A118, C143, E203
Burjek, N. ........................................................... F147, F146
Burke, B. ............................................................. E106
Burnett, G. .......................................................... F197, D179
Burns-Yocum, T. ................................................ E106
Bussey, L. ............................................................ F201, K33
Byerly, S. ............................................................ D74
Cabane, P. ........................................................... F130
Cabeza, R. .......................................................... A59, C115, D104, K26, SABIV Y
Cain, K. ............................................................... E23
Cakmakkaya, O. ................................................ A102 F172
Caldeira, M. ........................................................ F200, F99
Campbell, L. ....................................................... C111
Canales, C. ........................................................ C80, D81
Candiotti, K. ....................................................... E84, D126
Canter, D. ........................................................... D71, C76, F74
Carey, J. .............................................................. F76
Caridi-Scheible, M. ............................................. C23, F36
Carlson, A. ........................................................ A99
Carr, Z. .............................................................. C27, C26
Carrier, F. .......................................................... D68
Carroll, I. ............................................................ B179, D131
Carullo, V. ........................................................ E128
Casabianca, A. .................................................. B203, C144, D195, K16, A55, C64, E59
Cass, D. .............................................................. E150
Cata, J. ............................................................... B196, D160, K14, D12
Cavallone, L. ..................................................... B188, F180, B187, E145
Cecere, R. .......................................................... F30
Cerasuolo, J. ....................................................... A72, F119, E91
Cha, B. ............................................................... E205, D204
Chaaban, L. ........................................................ E50
Chabrashvili, T. .................................................. F100
Chai, P. ............................................................... A79, F128
Chaibou, M. ........................................................ E62
Chakraborty, I. .................................................... D122
Chamadia, S. ........................................................ B174
Chambers, E. ....................................................... D128, K5
Chambers, J. ....................................................... B201, D194, K21, SABII
Chan, A. .............................................................. E133
Chan, C. .............................................................. A62, E108, A59, C115, D104, K26, SABIV Y
Chan, J. .............................................................. B194, C130, D158, K19, SABII
Chan, V. ............................................................. F195
Chanar, E. .......................................................... A31, C28, D39
Chandrapaka, A. ............................................... F159, F144, F148
Chang, A. ........................................................... E139
Chang, J. ............................................................. C114
Chanowski, E. ................................................... C126, E134
Chao, J. .............................................................. A94, D154, SABIV Y
Chao, W. ............................................................ B165, A121, E209, A40, F50
Chasse, M. ........................................................ D68
Chaudhary, C. .................................................... A18, E25, E30
Chaudhry, F. ........................................................ D54
Chaudhry, R. ........................................................ D187, D186
Chauhan, G. ........................................................ D138
Chavez, A. ........................................................ C40, F44
Chawla, N. ........................................................ A100, F163
Chelnick, D. ........................................................ D140
Chen, C. ............................................................. D117, D156
Chen, J. ............................................................. E2
Chen, K. ............................................................. E35, D176
Chen, L. ............................................................. E50, C29, E41
Chen, M. ............................................................. C99, E94, B178, E124
Chen, Y. ............................................................. B184, E135
Chenosa, V. ........................................................ E105
Cherukupalli, D. ................................................. D5
Cheung, A. ........................................................ A24, A23
Cheung, M. ........................................................ E202
Chew, S. ............................................................. B183, C125, D136, K6, SABII Y
Chhibber, A. ........................................................ E152
Chihina, A. ........................................................ C108, F96
Chiao, S. ............................................................. F24, D55, E15
Chima, A. .......................................................... F77
Chinn, G. ............................................................ E107
Chirico, A. .......................................................... E99
Choe, D. ............................................................. A86, E142
Choi, C. .............................................................. F88
Choi, J. ............................................................. D142, K29, F204, F65
Choi, S. ............................................................. D143
Choice, C. .......................................................... D11
Choudhury, S. ..................................................... D182
Choukalas, C. ..................................................... C128, D63
Chowhdury, I. ..................................................... F174
Chowdhury, T. .................................................... C81, F82
Christensen, E. .................................................. A25, F25
Chung, E. ........................................................... E191
<table>
<thead>
<tr>
<th>Author</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chung, F.</td>
<td>F196, D166, D186, D187, D190, E141</td>
</tr>
<tr>
<td>Chung, J.</td>
<td></td>
</tr>
<tr>
<td>Chung, K.</td>
<td>D179</td>
</tr>
<tr>
<td>Cil, T.</td>
<td>F60</td>
</tr>
<tr>
<td>Ciullo, A.</td>
<td>A32, C30, F40</td>
</tr>
<tr>
<td>Clanachan, A.</td>
<td>D53</td>
</tr>
<tr>
<td>Clapcich, A.</td>
<td>E153, E7</td>
</tr>
<tr>
<td>Clark, A.</td>
<td>C118, F103</td>
</tr>
<tr>
<td>Clark, C.</td>
<td>F75</td>
</tr>
<tr>
<td>Clark, D.</td>
<td>B201, D194, K21, SABI, F179, A78, D127</td>
</tr>
<tr>
<td>Clarke, H.</td>
<td>E165</td>
</tr>
<tr>
<td>Cleveland, W.</td>
<td>E201</td>
</tr>
<tr>
<td>Cobas, M.</td>
<td>C74, D73, F116</td>
</tr>
<tr>
<td>Cobert, J.</td>
<td>C131, E171</td>
</tr>
<tr>
<td>Cocchiola, B.</td>
<td>D4</td>
</tr>
<tr>
<td>Cohen, A.</td>
<td>D70</td>
</tr>
<tr>
<td>Cohen, B.</td>
<td>D140</td>
</tr>
<tr>
<td>Cohen, E.</td>
<td>A100, F163, D71</td>
</tr>
<tr>
<td>Cohen, H.</td>
<td>A59, C115, D104, K26, SABIV Y</td>
</tr>
<tr>
<td>Cohen, L.</td>
<td>B161, C22, D32, K7, SABI</td>
</tr>
<tr>
<td>Cohen, M.</td>
<td>E206</td>
</tr>
<tr>
<td>Cohen, O.</td>
<td>F98, A76, D125</td>
</tr>
<tr>
<td>Cohen, S.</td>
<td>B178, E124</td>
</tr>
<tr>
<td>Cohen, Z.</td>
<td>B178, E124</td>
</tr>
<tr>
<td>Connor, C.</td>
<td>E103</td>
</tr>
<tr>
<td>Contreras, D.</td>
<td>E102</td>
</tr>
<tr>
<td>Contreras, F.</td>
<td>F130</td>
</tr>
<tr>
<td>Cook, M.</td>
<td>E74</td>
</tr>
<tr>
<td>Cooke, E.</td>
<td>D192, K22</td>
</tr>
<tr>
<td>Cooke, F.</td>
<td>A15, F18</td>
</tr>
<tr>
<td>Coombs, A.</td>
<td>E61</td>
</tr>
<tr>
<td>Cooper, Z.</td>
<td>B170, F62</td>
</tr>
<tr>
<td>Cooter, M.</td>
<td>B199, D188, A59, C115, D104, K26, SABIV Y, A62, E108</td>
</tr>
<tr>
<td>Cordova, C.</td>
<td>E200</td>
</tr>
<tr>
<td>Correll, L.</td>
<td>E152</td>
</tr>
<tr>
<td>Cotter, E.</td>
<td>C61</td>
</tr>
<tr>
<td>Cotter, S.</td>
<td>A61, C116, F101</td>
</tr>
<tr>
<td>Couture, P.</td>
<td>D28</td>
</tr>
<tr>
<td>Cox, D.</td>
<td>B167, F57</td>
</tr>
<tr>
<td>Coyne, D.</td>
<td>C53</td>
</tr>
<tr>
<td>Cozart, B.</td>
<td>C129, E161</td>
</tr>
<tr>
<td>Crabtree, D.</td>
<td>D38</td>
</tr>
<tr>
<td>Craig, D.</td>
<td>B155, D22, K25, SABII</td>
</tr>
<tr>
<td>Creutzfeldt, C.</td>
<td>A37, C42, D45</td>
</tr>
<tr>
<td>Crnkovic, A.</td>
<td>A92, D148</td>
</tr>
<tr>
<td>Crockett, C.</td>
<td>A45, E65</td>
</tr>
<tr>
<td>Croft, B.</td>
<td>D118</td>
</tr>
<tr>
<td>Cross, J.</td>
<td>F21</td>
</tr>
<tr>
<td>Cross, M.</td>
<td>F129, D110</td>
</tr>
<tr>
<td>Crowley, S.</td>
<td>A38, F48</td>
</tr>
<tr>
<td>Cruz, F.</td>
<td>A12, C12, E19</td>
</tr>
<tr>
<td>Cruz Beltran, S.</td>
<td>D20, D145</td>
</tr>
<tr>
<td>Cuesta Peraza, S.</td>
<td>E61</td>
</tr>
<tr>
<td>Cuff, G.</td>
<td>A31, C28, D39, D57</td>
</tr>
<tr>
<td>Cui, F.</td>
<td>B165</td>
</tr>
<tr>
<td>Cui, Z.</td>
<td>B184, E135</td>
</tr>
<tr>
<td>Culley, D.</td>
<td>C70, F66</td>
</tr>
<tr>
<td>Cullom, C.</td>
<td>E75</td>
</tr>
<tr>
<td>Culos, A.</td>
<td>B197, D161, K15, F179</td>
</tr>
<tr>
<td>Culver, J.</td>
<td>E106</td>
</tr>
<tr>
<td>Cunningham, G.</td>
<td>F78</td>
</tr>
<tr>
<td>Curran, J.</td>
<td>A83, F138</td>
</tr>
<tr>
<td>Dabbous, A.</td>
<td>D8</td>
</tr>
<tr>
<td>Dahlawi, M.</td>
<td>A72, F119</td>
</tr>
<tr>
<td>D'Alessandro, A.</td>
<td>A101, F164</td>
</tr>
<tr>
<td>Damiano, J.</td>
<td>E148</td>
</tr>
<tr>
<td>D'Amico, T.</td>
<td>B156, E32</td>
</tr>
<tr>
<td>Dan, W.</td>
<td>A114</td>
</tr>
<tr>
<td>Dana, P.</td>
<td>E109, D120</td>
</tr>
<tr>
<td>Dand, H.</td>
<td>A20, E28</td>
</tr>
<tr>
<td>Daneshmand, M.</td>
<td>A33, C33</td>
</tr>
<tr>
<td>Dang, J.</td>
<td>E191</td>
</tr>
<tr>
<td>Dang, S.</td>
<td>E179</td>
</tr>
<tr>
<td>Dani, D.</td>
<td>C126, E134</td>
</tr>
<tr>
<td>Daniel, R.</td>
<td>C96, D95</td>
</tr>
<tr>
<td>Danielsson, J.</td>
<td>D96</td>
</tr>
<tr>
<td>Danks, D.</td>
<td>B200, D191, K9, SAB1</td>
</tr>
<tr>
<td>Daoud, B.</td>
<td>D96</td>
</tr>
<tr>
<td>Daper, A.</td>
<td>E36</td>
</tr>
<tr>
<td>Darji, P.</td>
<td>D171</td>
</tr>
<tr>
<td>Dasgupta, P.</td>
<td>B200, D191, K9, SAB1</td>
</tr>
<tr>
<td>Dave, M.</td>
<td>C90, E88</td>
</tr>
<tr>
<td>Davila, V.</td>
<td>C72, E73</td>
</tr>
<tr>
<td>Davis, B.</td>
<td>D38</td>
</tr>
<tr>
<td>Davis, H.</td>
<td>C135</td>
</tr>
<tr>
<td>Davis, J.</td>
<td>D76</td>
</tr>
<tr>
<td>Davis, R.</td>
<td>E109, D120</td>
</tr>
<tr>
<td>De la Cruz, C.</td>
<td>C31</td>
</tr>
<tr>
<td>de Lima Corvino, D.</td>
<td>C74, D73</td>
</tr>
<tr>
<td>De Souza, B.</td>
<td>B195, D164</td>
</tr>
<tr>
<td>Decker, J.</td>
<td>F69</td>
</tr>
<tr>
<td>Deen, J.</td>
<td>F189</td>
</tr>
<tr>
<td>Deiner, S.</td>
<td>F113</td>
</tr>
<tr>
<td>Delman, B.</td>
<td>F113</td>
</tr>
<tr>
<td>Delphine, E.</td>
<td>F63, F118</td>
</tr>
<tr>
<td>Demski, R.</td>
<td>A18</td>
</tr>
<tr>
<td>Demou, A.</td>
<td>C41, D44, D28</td>
</tr>
<tr>
<td>Deng, H.</td>
<td>F178</td>
</tr>
<tr>
<td>Denny, C.</td>
<td>D180</td>
</tr>
<tr>
<td>DeOliveira, G.</td>
<td>A9, C6</td>
</tr>
<tr>
<td>Depakakibo, R.</td>
<td>E191</td>
</tr>
<tr>
<td>Desai, A.</td>
<td>A25, F25</td>
</tr>
<tr>
<td>Desai, V.</td>
<td>E191</td>
</tr>
<tr>
<td>Deschamps, A.</td>
<td>E35, D28</td>
</tr>
<tr>
<td>Author</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>Deshpande, R.</td>
<td>A50, E51, A100, F163</td>
</tr>
<tr>
<td>Desjardins, G.</td>
<td>D28</td>
</tr>
<tr>
<td>Devarajan, J.</td>
<td>C126, E134</td>
</tr>
<tr>
<td>Devinney, M.</td>
<td>B199, D188, A59, C115, D104, K26, SABIV Y A62, E108</td>
</tr>
<tr>
<td>Dewald, O.</td>
<td>A26, C17</td>
</tr>
<tr>
<td>Dexter, F.</td>
<td>A47</td>
</tr>
<tr>
<td>Deygoo, J.</td>
<td>C110, D102</td>
</tr>
<tr>
<td>Dhar, R.</td>
<td>E106</td>
</tr>
<tr>
<td>Dhar, S.</td>
<td>E132</td>
</tr>
<tr>
<td>Dhashmana, S.</td>
<td>A4, C8, E11, E3</td>
</tr>
<tr>
<td>Dhillon, S.</td>
<td>E57</td>
</tr>
<tr>
<td>Dhiman, H.</td>
<td>A81, C123, D129</td>
</tr>
<tr>
<td>Dhirajaj, S.</td>
<td>F187</td>
</tr>
<tr>
<td>Di, M.</td>
<td>C45, D46</td>
</tr>
<tr>
<td>Diachun, C.</td>
<td>D56</td>
</tr>
<tr>
<td>Diaz Soto, J.</td>
<td>C78, E76</td>
</tr>
<tr>
<td>Diaz-Ariesta, R.</td>
<td>E167</td>
</tr>
<tr>
<td>Dickerson, S.</td>
<td>E162</td>
</tr>
<tr>
<td>Dickson, K.</td>
<td>E38</td>
</tr>
<tr>
<td>Dietz, C.</td>
<td>D197</td>
</tr>
<tr>
<td>Dietz, R.</td>
<td>A64</td>
</tr>
<tr>
<td>Dilger, J.</td>
<td>E184</td>
</tr>
<tr>
<td>Dillane, D.</td>
<td>F165</td>
</tr>
<tr>
<td>DiLorenzo, A.</td>
<td>A54, E56, A48, F56</td>
</tr>
<tr>
<td>DiMeglio, M.</td>
<td>E167</td>
</tr>
<tr>
<td>Dinardo, A.</td>
<td>A91, D147</td>
</tr>
<tr>
<td>Ding, M.</td>
<td>E109, D105, K28, D110, D120</td>
</tr>
<tr>
<td>Ding, W.</td>
<td>A80</td>
</tr>
<tr>
<td>Dion, C.</td>
<td>E109, D120</td>
</tr>
<tr>
<td>Ditro, C.</td>
<td>F156</td>
</tr>
<tr>
<td>Dixit, A.</td>
<td>A6, C10, E16, A5, C9, D9</td>
</tr>
<tr>
<td>Dizdarevic, A.</td>
<td>F183</td>
</tr>
<tr>
<td>Djaiani, G.</td>
<td>E35</td>
</tr>
<tr>
<td>Djaherian, D.</td>
<td>D77</td>
</tr>
<tr>
<td>Djogov, L.</td>
<td>F143</td>
</tr>
<tr>
<td>D’Mello, J.</td>
<td>C16, F23</td>
</tr>
<tr>
<td>Do, V.</td>
<td>A100, F163</td>
</tr>
<tr>
<td>Doan, L.</td>
<td>D130</td>
</tr>
<tr>
<td>Dodd-o, J.</td>
<td>C13, D19, K4, Y</td>
</tr>
<tr>
<td>Dominguez, J.</td>
<td>B199, D188</td>
</tr>
<tr>
<td>Doney, A.</td>
<td>A86, E142</td>
</tr>
<tr>
<td>Dong, Y.</td>
<td>F111</td>
</tr>
<tr>
<td>Donovan, A.</td>
<td>A56, C114</td>
</tr>
<tr>
<td>Dorfling, J.</td>
<td>E37</td>
</tr>
<tr>
<td>Dority, J.</td>
<td>A54, E56, A48, F56</td>
</tr>
<tr>
<td>Dos Santos, F.</td>
<td>D206</td>
</tr>
<tr>
<td>Doshi, I.</td>
<td>A41, C65, D61</td>
</tr>
<tr>
<td>Douin, D.</td>
<td>C32</td>
</tr>
<tr>
<td>Dowling, O.</td>
<td>A73, C127, F122</td>
</tr>
<tr>
<td>du Toit, L.</td>
<td>E62</td>
</tr>
<tr>
<td>Duan, R.</td>
<td>C118, F103</td>
</tr>
<tr>
<td>Duarte, A.</td>
<td>F132</td>
</tr>
<tr>
<td>Duarte, K.</td>
<td>A83, F138</td>
</tr>
<tr>
<td>Duarte, S.</td>
<td>D193, K23</td>
</tr>
<tr>
<td>Dubovoy, T.</td>
<td>E163</td>
</tr>
<tr>
<td>Dudaryk, R.</td>
<td>C105, E95, D205, D207, E139</td>
</tr>
<tr>
<td>Duke, P.</td>
<td>E202, E191</td>
</tr>
<tr>
<td>Dull, R.</td>
<td>F111</td>
</tr>
<tr>
<td>Dumertonshore,</td>
<td>D, E35</td>
</tr>
<tr>
<td>Dumont, A.</td>
<td>E35</td>
</tr>
<tr>
<td>Dumont, G.</td>
<td>D192, K22</td>
</tr>
<tr>
<td>Dumrongkultraks, J.</td>
<td>A77, E121</td>
</tr>
<tr>
<td>Dunn, L.</td>
<td>E43, D117, E195</td>
</tr>
<tr>
<td>Dunson, D.</td>
<td>C63, F51</td>
</tr>
<tr>
<td>Dupigny-Giroux, L.</td>
<td>E64</td>
</tr>
<tr>
<td>Durieux, M.</td>
<td>E43, D117, D55</td>
</tr>
<tr>
<td>Durr, D.</td>
<td>A26, C17</td>
</tr>
<tr>
<td>Durrani, T.</td>
<td>C59</td>
</tr>
<tr>
<td>Dutton, R.</td>
<td>B171, E60, D205, F59, A42, D60, D138</td>
</tr>
<tr>
<td>Dwivedi, S.</td>
<td>E178</td>
</tr>
<tr>
<td>Dworschak, M.</td>
<td>E27</td>
</tr>
<tr>
<td>Easley, R.</td>
<td>A69, C122, D119</td>
</tr>
<tr>
<td>Eberle, B.</td>
<td>F105, D113</td>
</tr>
<tr>
<td>Eckenhoff, R.</td>
<td>B151, E20, B150, D15</td>
</tr>
<tr>
<td>Eckle, T.</td>
<td>B160</td>
</tr>
<tr>
<td>Edwards, R.</td>
<td>A79, F128, E129</td>
</tr>
<tr>
<td>Efanov, A.</td>
<td>B157</td>
</tr>
<tr>
<td>Egana, J.</td>
<td>F130, D112</td>
</tr>
<tr>
<td>Egan, T.</td>
<td>E21</td>
</tr>
<tr>
<td>Eggebrecht, A.</td>
<td>E106</td>
</tr>
<tr>
<td>Eghbali, M.</td>
<td>A21, D23, K24, SABIII</td>
</tr>
<tr>
<td>Ehlers, M.</td>
<td>A92, D148, A81, C123, D129</td>
</tr>
<tr>
<td>Eid, A.</td>
<td>B202, C141, D198, E198, F198</td>
</tr>
<tr>
<td>Eid, M.</td>
<td>B202, C141, D198</td>
</tr>
<tr>
<td>Eikermann, M.</td>
<td>F178, D163, D202</td>
</tr>
<tr>
<td>Einhaus, J.</td>
<td>B197, D161, K15</td>
</tr>
<tr>
<td>Eisler, L.</td>
<td>A89, D144</td>
</tr>
<tr>
<td>El Sayed, H.</td>
<td>B157</td>
</tr>
<tr>
<td>ElAmM, C.</td>
<td>C103</td>
</tr>
<tr>
<td>Eldor, C.</td>
<td>A16, F19</td>
</tr>
<tr>
<td>El-Gabalawy, R.</td>
<td>E35</td>
</tr>
<tr>
<td>Elgamaal, M.</td>
<td>B202, C141, D198</td>
</tr>
<tr>
<td>Elias, P.</td>
<td>D207</td>
</tr>
<tr>
<td>Ellis, A.</td>
<td>C138, D178, D159, K20, C131, E171, C132, D157, K30, C133, E174</td>
</tr>
<tr>
<td>Elish, C.</td>
<td>D7, D54</td>
</tr>
<tr>
<td>Eley, M.</td>
<td>B157</td>
</tr>
<tr>
<td>Eitzschig, H.</td>
<td>D37</td>
</tr>
<tr>
<td>Emala, C.</td>
<td>A114, A1, A112, A113</td>
</tr>
<tr>
<td>Embabi, A.</td>
<td>E77, D78</td>
</tr>
<tr>
<td>Engle, A.</td>
<td>B178, E124</td>
</tr>
<tr>
<td>Engoren, M.</td>
<td>A36, C34, D42, E29</td>
</tr>
<tr>
<td>Engel, B.</td>
<td>D419</td>
</tr>
<tr>
<td>Epstein, R.</td>
<td>A47, D205</td>
</tr>
<tr>
<td>Escalier, K.</td>
<td>D189</td>
</tr>
<tr>
<td>Escarza, B.</td>
<td>D20, D145</td>
</tr>
<tr>
<td>Esfahani, N.</td>
<td>D190</td>
</tr>
<tr>
<td>Esparza Gutierrez, A.</td>
<td>A123, A116, E194</td>
</tr>
<tr>
<td>Author Name</td>
<td>Pages</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Essendoh, M.</td>
<td>F184, E182</td>
</tr>
<tr>
<td>Essber, H.</td>
<td>D140</td>
</tr>
<tr>
<td>Esser, C.</td>
<td>E4</td>
</tr>
<tr>
<td>Esterlis, M.</td>
<td>A46, C66</td>
</tr>
<tr>
<td>Estime, S.</td>
<td>C2</td>
</tr>
<tr>
<td>Etemadi-Aleagha, A.</td>
<td>E5</td>
</tr>
<tr>
<td>Etezadi, F.</td>
<td>D201</td>
</tr>
<tr>
<td>Ethridge, B.</td>
<td>D64</td>
</tr>
<tr>
<td>Evans, A.</td>
<td>C40, F44</td>
</tr>
<tr>
<td>Evans, M.</td>
<td>F146</td>
</tr>
<tr>
<td>Ezimora, C.</td>
<td>E78</td>
</tr>
<tr>
<td>Facco, F.</td>
<td>A75, F125, D49</td>
</tr>
<tr>
<td>Fackler, J.</td>
<td>A90, D146, E149</td>
</tr>
<tr>
<td>Fahy, B.</td>
<td>C70, F66</td>
</tr>
<tr>
<td>Fallahzadeh, R.</td>
<td>B197, D161, K15, E78</td>
</tr>
<tr>
<td>Fang, S.</td>
<td>E43</td>
</tr>
<tr>
<td>Fang, X.</td>
<td>E44</td>
</tr>
<tr>
<td>Fang, Y.</td>
<td>F111</td>
</tr>
<tr>
<td>Fanucchi, L.</td>
<td>F136</td>
</tr>
<tr>
<td>Faraoni, D.</td>
<td>A89, D144</td>
</tr>
<tr>
<td>Farley, D.</td>
<td>A83, F138</td>
</tr>
<tr>
<td>Farrell, L.</td>
<td>A75, F125, A74, D124</td>
</tr>
<tr>
<td>Fehr, J.</td>
<td>F53</td>
</tr>
<tr>
<td>Fehr, V.</td>
<td>F11, E164</td>
</tr>
<tr>
<td>Feiner, J.</td>
<td>A102, F172</td>
</tr>
<tr>
<td>Feit, J.</td>
<td>F67</td>
</tr>
<tr>
<td>Feld, S.</td>
<td>C79</td>
</tr>
<tr>
<td>Feng, S.</td>
<td>D177</td>
</tr>
<tr>
<td>Feng, X.</td>
<td>F38</td>
</tr>
<tr>
<td>Fennessy, P.</td>
<td>A2, C5, F6</td>
</tr>
<tr>
<td>Fergusson, D.</td>
<td>F45, E170, E54</td>
</tr>
<tr>
<td>Fermier, B.</td>
<td>D181</td>
</tr>
<tr>
<td>Fernandez, A.</td>
<td>A90, D146, E149</td>
</tr>
<tr>
<td>Fernandez, L.</td>
<td>D117</td>
</tr>
<tr>
<td>Fernandez Betances, A</td>
<td>C74, D73</td>
</tr>
<tr>
<td>Fernandez-Bustamante, A</td>
<td>A99, A111, E192</td>
</tr>
<tr>
<td>Fernandez-Robles, C</td>
<td>A100, F163</td>
</tr>
<tr>
<td>Ferrada, P.</td>
<td>C39, E45</td>
</tr>
<tr>
<td>Ferradal, S.</td>
<td>E106</td>
</tr>
<tr>
<td>Ferraro, K.</td>
<td>F117</td>
</tr>
<tr>
<td>Ferrufino, C.</td>
<td>A119, C145, F202</td>
</tr>
<tr>
<td>Ferschl, M.</td>
<td>F126</td>
</tr>
<tr>
<td>Fettiplance, M.</td>
<td>D40</td>
</tr>
<tr>
<td>Fiala, R.</td>
<td>E200</td>
</tr>
<tr>
<td>Fiedorek, C.</td>
<td>E147, D20</td>
</tr>
<tr>
<td>Fiedorek, M.</td>
<td>E147, D20</td>
</tr>
<tr>
<td>Fields, K.</td>
<td>F21, F129</td>
</tr>
<tr>
<td>Fierro, M.</td>
<td>A33, C33</td>
</tr>
<tr>
<td>Figueroa, L.</td>
<td>A45, E65</td>
</tr>
<tr>
<td>Finkel, J.</td>
<td>F137, E125</td>
</tr>
<tr>
<td>Fiorda-Diaz, J.</td>
<td>F123, E194</td>
</tr>
<tr>
<td>Fischer, B.</td>
<td>E106</td>
</tr>
<tr>
<td>Fischer, G.</td>
<td>F68</td>
</tr>
<tr>
<td>Fishell, A.</td>
<td>E106</td>
</tr>
<tr>
<td>Fisher, P.</td>
<td>A91, D147</td>
</tr>
<tr>
<td>Fisher, T.</td>
<td>F98</td>
</tr>
<tr>
<td>Fiskum, G.</td>
<td>B162, D34, K1, SABI, D3</td>
</tr>
<tr>
<td>Fiza, B.</td>
<td>C94, E92</td>
</tr>
<tr>
<td>Fjotland, C.</td>
<td>F85</td>
</tr>
<tr>
<td>Fleisher, L.</td>
<td>A58, D66</td>
</tr>
<tr>
<td>Fleming, J.</td>
<td>E67</td>
</tr>
<tr>
<td>Flexman, A.</td>
<td>F60, D59, E53</td>
</tr>
<tr>
<td>Floccare, D.</td>
<td>A120, E207</td>
</tr>
<tr>
<td>Flynn, B.</td>
<td>C61</td>
</tr>
<tr>
<td>Foote, J.</td>
<td>F54</td>
</tr>
<tr>
<td>Forbes, A.</td>
<td>F166</td>
</tr>
<tr>
<td>Forest, D.</td>
<td>F140, E186</td>
</tr>
<tr>
<td>Forkin, K.</td>
<td>D55</td>
</tr>
<tr>
<td>Forman, S.</td>
<td>F178</td>
</tr>
<tr>
<td>Forshaw, A.</td>
<td>D79</td>
</tr>
<tr>
<td>Fort, A.</td>
<td>C74, D73, F116</td>
</tr>
<tr>
<td>Fowler, M.</td>
<td>C96, D95</td>
</tr>
<tr>
<td>Fowler, W.</td>
<td>F79</td>
</tr>
<tr>
<td>Fox, C.</td>
<td>F114</td>
</tr>
<tr>
<td>Fox, G.</td>
<td>E54</td>
</tr>
<tr>
<td>Fraker, C.</td>
<td>A10, D14, K10, SABI1</td>
</tr>
<tr>
<td>France, D.</td>
<td>B186, E140</td>
</tr>
<tr>
<td>Francescangeli, J.</td>
<td>C27</td>
</tr>
<tr>
<td>Franceschi, F.</td>
<td>D84</td>
</tr>
<tr>
<td>Francis, J.</td>
<td>A84, F139, E79</td>
</tr>
<tr>
<td>Francois, A.</td>
<td>F7</td>
</tr>
<tr>
<td>Frank, R.</td>
<td>C15</td>
</tr>
<tr>
<td>Frank, S.</td>
<td>A18, D193, K23, E25, E30, E31, F22</td>
</tr>
<tr>
<td>Fraser, J.</td>
<td>C118, F103, C117, E112</td>
</tr>
<tr>
<td>Frede, S.</td>
<td>A26, C17</td>
</tr>
<tr>
<td>Freed, J.</td>
<td>E58</td>
</tr>
<tr>
<td>Freilich, A.</td>
<td>D41</td>
</tr>
<tr>
<td>Freundlich, R.</td>
<td>A36, C34, D42, D197</td>
</tr>
<tr>
<td>Fridell, J.</td>
<td>F161</td>
</tr>
<tr>
<td>Fridman, R.</td>
<td>D118</td>
</tr>
<tr>
<td>Friedman, B.</td>
<td>C40, F44</td>
</tr>
<tr>
<td>Friedman, Z.</td>
<td>A3, C7, E14</td>
</tr>
<tr>
<td>Friend, A.</td>
<td>F162, F120</td>
</tr>
<tr>
<td>Frisenda, G.</td>
<td>D71, D70</td>
</tr>
<tr>
<td>Fritz, B.</td>
<td>B184, E135, D189, A63, D111</td>
</tr>
<tr>
<td>Fujinaka, W.</td>
<td>F89, D101</td>
</tr>
<tr>
<td>Fukada, T.</td>
<td>E12</td>
</tr>
<tr>
<td>Fukusaki, M.</td>
<td>F169</td>
</tr>
<tr>
<td>Fung, D.</td>
<td>E18</td>
</tr>
<tr>
<td>Funsch, C.</td>
<td>E139</td>
</tr>
<tr>
<td>Furgiuele, D.</td>
<td>F67</td>
</tr>
<tr>
<td>Gabel, C.</td>
<td>E103</td>
</tr>
<tr>
<td>Gabriel, R.</td>
<td>B166, C129, E161</td>
</tr>
<tr>
<td>Gac, P.</td>
<td>F130</td>
</tr>
<tr>
<td>Gadomski, B.</td>
<td>F1</td>
</tr>
<tr>
<td>Gai, N.</td>
<td>F200</td>
</tr>
<tr>
<td>Gainsburg, D.</td>
<td>F167</td>
</tr>
<tr>
<td>Gal, J.</td>
<td>B169, F58, F167, F54</td>
</tr>
<tr>
<td>Galan, H.</td>
<td>A117, C142, D200</td>
</tr>
<tr>
<td>Author Name</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Gale, J.</td>
<td>A79, F128</td>
</tr>
<tr>
<td>Gallagher, C.</td>
<td>C47</td>
</tr>
<tr>
<td>Gallo, D.</td>
<td>A28, D36, K12, SABIII</td>
</tr>
<tr>
<td>Galloway, A.</td>
<td>A31, C28, D39</td>
</tr>
<tr>
<td>Galvagni, S.</td>
<td>A120, E207</td>
</tr>
<tr>
<td>Gan, T.</td>
<td>E185</td>
</tr>
<tr>
<td>Ganash, M.</td>
<td>F198, E198</td>
</tr>
<tr>
<td>Ganesh, A.</td>
<td>D155</td>
</tr>
<tr>
<td>Gao, E.</td>
<td>B197, D161, K15, F179</td>
</tr>
<tr>
<td>Garcia, D.</td>
<td>F80</td>
</tr>
<tr>
<td>Garcia, E.</td>
<td>C59</td>
</tr>
<tr>
<td>Garcia, P.</td>
<td>F112, E117, F108</td>
</tr>
<tr>
<td>Garg, D.</td>
<td>E120</td>
</tr>
<tr>
<td>Garg, R.</td>
<td>A8, D10</td>
</tr>
<tr>
<td>Garstka, M.</td>
<td>D166</td>
</tr>
<tr>
<td>Garza, A.</td>
<td>F27</td>
</tr>
<tr>
<td>Gasangwa, D.</td>
<td>F31</td>
</tr>
<tr>
<td>Gasior Bejar, A.</td>
<td>E80, D80</td>
</tr>
<tr>
<td>Gaudilliere, B.</td>
<td>B197, D161, K15, F179</td>
</tr>
<tr>
<td>Geerts, B.</td>
<td>E204, D69</td>
</tr>
<tr>
<td>Gehrie, E.</td>
<td>F22</td>
</tr>
<tr>
<td>Gehoagen, B.</td>
<td>F135</td>
</tr>
<tr>
<td>Georges, M.</td>
<td>A30, F35</td>
</tr>
<tr>
<td>Georgiadis, P.</td>
<td>A108, E180</td>
</tr>
<tr>
<td>Gerassimov, M.</td>
<td>A73, C127, F122, C110, D102</td>
</tr>
<tr>
<td>Gerber, T.</td>
<td>F11</td>
</tr>
<tr>
<td>Gerow, F.</td>
<td>F155</td>
</tr>
<tr>
<td>Gershon, A.</td>
<td>E175</td>
</tr>
<tr>
<td>Ghabra, H.</td>
<td>E7</td>
</tr>
<tr>
<td>Ghaemi, S.</td>
<td>F179</td>
</tr>
<tr>
<td>Gibbons, M.</td>
<td>E158</td>
</tr>
<tr>
<td>Gilkey, G.</td>
<td>F78</td>
</tr>
<tr>
<td>Gillinov, M.</td>
<td>A19, E26</td>
</tr>
<tr>
<td>Gingrich, K.</td>
<td>A11</td>
</tr>
<tr>
<td>Giordano, M.</td>
<td>F167</td>
</tr>
<tr>
<td>Girard, M.</td>
<td>D68</td>
</tr>
<tr>
<td>Gitlin, J.</td>
<td>D64</td>
</tr>
<tr>
<td>Gitlin, M.</td>
<td>E84</td>
</tr>
<tr>
<td>Glass, R.</td>
<td>C55</td>
</tr>
<tr>
<td>Glick, D.</td>
<td>B171, E60, E132, F170, A42, D60</td>
</tr>
<tr>
<td>Glover, C.</td>
<td>F155, E150</td>
</tr>
<tr>
<td>Gobin, V.</td>
<td>E62</td>
</tr>
<tr>
<td>Godin, N.</td>
<td>F134</td>
</tr>
<tr>
<td>Goel, A.</td>
<td>E165</td>
</tr>
<tr>
<td>Gold, J.</td>
<td>D118</td>
</tr>
<tr>
<td>Golden, S.</td>
<td>F81</td>
</tr>
<tr>
<td>Goldfingo, M.</td>
<td>F149</td>
</tr>
<tr>
<td>Gomes, T.</td>
<td>B180, D134</td>
</tr>
<tr>
<td>Gomez, M.</td>
<td>C80, D81</td>
</tr>
<tr>
<td>Gonzalez Della Valle, A.</td>
<td>F129</td>
</tr>
<tr>
<td>Gonzalez-Zacarias, A.</td>
<td>F131, D169</td>
</tr>
<tr>
<td>Goodnough, R.</td>
<td>C59</td>
</tr>
<tr>
<td>Gorbaty, B.</td>
<td>E100</td>
</tr>
<tr>
<td>Görges, M.</td>
<td>D192, K22, D156</td>
</tr>
<tr>
<td>Gosalia, N.</td>
<td>D162</td>
</tr>
<tr>
<td>Gott, J.</td>
<td>D51</td>
</tr>
<tr>
<td>Gottschalk, A.</td>
<td>A57, D65, F142</td>
</tr>
<tr>
<td>Gover, A.</td>
<td>D130</td>
</tr>
<tr>
<td>Goyal, A.</td>
<td>C106, E98</td>
</tr>
<tr>
<td>Grace, P.</td>
<td>B196, D160, K14</td>
</tr>
<tr>
<td>Grafe, M.</td>
<td>A60, D103, K3, SABIV</td>
</tr>
<tr>
<td>Graham, R.</td>
<td>F161</td>
</tr>
<tr>
<td>Granton, J.</td>
<td>E175</td>
</tr>
<tr>
<td>Grata, M.</td>
<td>D29</td>
</tr>
<tr>
<td>Gravenstein, N.</td>
<td>A17, C14, D21</td>
</tr>
<tr>
<td>Gray, C.</td>
<td>F189</td>
</tr>
<tr>
<td>Greenberg, R.</td>
<td>D141</td>
</tr>
<tr>
<td>Greenwald, A.</td>
<td>C81, F82, F83</td>
</tr>
<tr>
<td>Grocoff, H.</td>
<td>F20, K31</td>
</tr>
<tr>
<td>Grubb, P.</td>
<td>E140</td>
</tr>
<tr>
<td>Grupke, S.</td>
<td>C117, E112</td>
</tr>
<tr>
<td>Gu, L.</td>
<td>B165</td>
</tr>
<tr>
<td>Gu, S.</td>
<td>B164</td>
</tr>
<tr>
<td>Guangyi, G.</td>
<td>C61</td>
</tr>
<tr>
<td>Guay, C.</td>
<td>F12</td>
</tr>
<tr>
<td>Gudzenko, V.</td>
<td>C80, D81</td>
</tr>
<tr>
<td>Guedalia, J.</td>
<td>A76, D125</td>
</tr>
<tr>
<td>Gui, J.</td>
<td>E195, F76, E31</td>
</tr>
<tr>
<td>Gupta, N.</td>
<td>A8, D10</td>
</tr>
<tr>
<td>Gupta, P.</td>
<td>D122</td>
</tr>
<tr>
<td>Gupte, S.</td>
<td>D24, K11</td>
</tr>
<tr>
<td>Guseva, Y.</td>
<td>D123</td>
</tr>
<tr>
<td>Gutiérrez, R.</td>
<td>F130, D112</td>
</tr>
<tr>
<td>Gutsche, J.</td>
<td>C47</td>
</tr>
<tr>
<td>Gwak, M.</td>
<td>D142, D29</td>
</tr>
<tr>
<td>Haché, C.</td>
<td>D156</td>
</tr>
<tr>
<td>Haché, M.</td>
<td>E137</td>
</tr>
<tr>
<td>Hackmann, T.</td>
<td>E151</td>
</tr>
<tr>
<td>Hadda, V.</td>
<td>A8, D10</td>
</tr>
<tr>
<td>Haddad, T.</td>
<td>A83, F138</td>
</tr>
<tr>
<td>Haddy, S.</td>
<td>F171</td>
</tr>
<tr>
<td>Haehn, D.</td>
<td>D172</td>
</tr>
<tr>
<td>Hagan, K.</td>
<td>D12</td>
</tr>
<tr>
<td>Hagberg, C.</td>
<td>B196, D160, K14</td>
</tr>
<tr>
<td>Hah, J.</td>
<td>B179, D131</td>
</tr>
<tr>
<td>Hahn, E.</td>
<td>B174, D64</td>
</tr>
<tr>
<td>Haight, E.</td>
<td>F179</td>
</tr>
<tr>
<td>Hajimohamadi, F.</td>
<td>E5</td>
</tr>
<tr>
<td>Halem, J.</td>
<td>A91, D147</td>
</tr>
<tr>
<td>Hall, M.</td>
<td>C31</td>
</tr>
<tr>
<td>Hall, S.</td>
<td>D180</td>
</tr>
<tr>
<td>Hallare, J.</td>
<td>B166</td>
</tr>
<tr>
<td>Han, S.</td>
<td>F41</td>
</tr>
<tr>
<td>Hanak, M.</td>
<td>E43, D117</td>
</tr>
<tr>
<td>Hanakova, M.</td>
<td>C100, F91</td>
</tr>
<tr>
<td>Hancher-Hodges, S.</td>
<td>D12</td>
</tr>
<tr>
<td>Handisides, D.</td>
<td>C40, F44, C39, E45</td>
</tr>
<tr>
<td>Haney, J.</td>
<td>A33, C33</td>
</tr>
<tr>
<td>Haney, V.</td>
<td>D139</td>
</tr>
<tr>
<td>Hanidziar, D.</td>
<td>A28, D36, K12, SABIII</td>
</tr>
<tr>
<td>Hansen, K.</td>
<td>A101, F164</td>
</tr>
<tr>
<td>Hanson, A.</td>
<td>C15</td>
</tr>
</tbody>
</table>
Hanson, D. ......................................................... F155
Hao, Q. .............................................................. A29, D35, K2, SABIII, D33, K8
Hara, S. ............................................................... D133
Hara, T. ................................................................. F169
Harada, H. ............................................................ E111
Hardcastle, C. ............................................. E109, D105, K28, D120
Harden, S. ............................................................ C35
Hare, G. ................................................................. F98, D109, E105
Hargrove, B. ....................................................... F117
Harrell, C. ............................................................. F81
Harris, H. ............................................................. F140, E186
Harrison, B. ............................................. B154, F102, K32, A70, E118
Hart, V. ................................................................. C75, E72
Harter, R. .............................................................. E159
Hartman, R. .......................................................... F112
Hartwig, M. ............................................................ A33, C33
Haseneder, R. .................................................... F10, E22
Hashmi, S. .............................................................. C23, F36
Haskins, S. ............................................................. F195
Hassan, N. ............................................................. E141
Hastie, M. .............................................................. A53, F61
Hastings, R. ......................................................... B166
Hatton, K. ..................................................... C36, C117, E112, C118, F103
Hawryluck, L. ...................................................... E141
Hayase, K. ............................................................. A115, D199
Haydar, B. ............................................................ A97, D152
Hayes, C. ............................................................. A45, E65
He, C. ................................................................. B178, E124
He, Y. ................................................................. B184, E135
Hebbar, L. ............................................................... E67
Heerdt, P. ............................................................... A15, F18
Hees, J. ................................................................. E201
Hegazi, A. .............................................................. D78
Heil, L. ................................................................. A12, C12, E19
Hekmatjah, N. .................................................... C80, D81
Helander, E. ...................................................... E190, D185, E181
Holland, P. ............................................................. C80, D81
Hellinger, W. ....................................................... D172
Hellman, J. ............................................................. D50
Helmer Sobey, J. .................................................. F150
Helou, M. ............................................................... E50
Helsten, D. ......................................................... B188, F180, B187, E145
Henderson, R. ................................................... A27, A101, F164
Hendricks, W. .................................................... B176
Henry, M. ............................................................. C47
Herbstreit, S. ........................................................ F55
Hermes, J. ............................................................. D115
Hernaiz, C. ............................................................ F160
Hernandez, B. ..................................................... A44, E63
Herrick, S. ............................................................. A98, C136, E160, D5
Herson, P. .............................................................. A64
Heusdens, J. ........................................................ E204
Hickman, L. .......................................................... E113
Hidaka, H. ............................................................. E138
Higgins, J. ....................................................... B198, D175
Hight, D. .............................................................. F105, D113
Hill, A. ................................................................. B180, D134
Hill, G. ................................................................. E58
Hilmo, H. ............................................................. B179, D131
Hindman, B. ........................................................ F1
Hirji, S. ................................................................. C20
Hiroi, K. ................................................................. E89
Hirschfeld, M. ......................................................... E152
Hirschi, T. ............................................................. F105
Hittesdorf, E. ......................................................... E69, E68
Hladkowicz, E. .................................................... F71
Hlaing, M. ............................................................. D72
Ho, G. ................................................................. D166
Hochheiser, H. ......................................................... B200, D191, K9, SABI
Hocking, K. ............................................................. F150
Hockstein, M. ......................................................... C23, F36
Hodge, K. .............................................................. C62, D52
Hofmann, A. .......................................................... F16
Hofmann, J. ........................................................... B203, C144, D195, K16
Hofman, N. .......................................................... A21, D23, K24, SABI
Hoh, B. ................................................................. F114
Holbein, B. ............................................................. E38
Hollmann, M. ........................................................ D69
Holmes, G. .............................................................. A94, D154, SABIV
Holzberger, J. ......................................................... A48, F56
Hong, E. ............................................................... C1, D1
Hong, J. ................................................................. F41
Hooshmandi, M. ................................................... B193, D151
Hooten, M. ............................................................. E127
Hostyk, J. ............................................................... C81, F82
Hotan, G. .............................................................. C121, F115
Hou, J. ................................................................. F157
Houle, T. .............................................................. F178, D163
Housey, S. .............................................................. E163
Howard, P. ............................................................. C4
Howze, K. .............................................................. C73
Hoyt, M. ................................................................. D92
Hozan, M. .............................................................. D116
Hsia, J. ................................................................. C138, D178
Hu, D. ................................................................. A82, C124, D132
Hu, G. ................................................................. F11
Hu, P. ................................................................. A120, E207
Hua, M. ................................................................. B170, F62
Huang, C. ............................................................. E66, D43
Huang, H. ............................................................. E109, D105, K28, D120
Huang, J. .............................................................. F167
Huang, Y. .............................................................. D16
Huber-Lang, M. ...................................................... E206
Huddleston, L. ...................................................... C114
Hudson, A. ........................................................... B173, F104
Hudson, J. .............................................................. E141
Huffmyer, J. ......................................................... B167, F57, E195
Hughes, C. ......................................................... A105, C137, D173, F29, F38
Hughes, R. ............................................................. E166
Hulvershorn, J. ....................................................... F201, K33
Humphedian, M. .................................................. E159, E116
Humphrey, T. ........................................................ F171
AUTHOR INDEX

Hunting, J. ............................................. A61, C116, F101
Hunyady, A. ............................................. E10
Hur, M ..................................................... F205, D203, F2
Hussain, N .............................................. F184, E182
Hussey, H .................................................. E81
Hussey, P ................................................... D2
Huston, J. .................................................. C36
Hwang, J ................................................... A112
Hylton, D ................................................... F42
Hyman, S ............................................... E208
Hynes, Z ................................................... F32
Jadarola, M ............................................. B152
Ibala, R ..................................................... D64
Ibinson, J ................................................. B200, D191, K9, SABI
Ihekwezu, U ............................................. F129
Ihnatenka, B ............................................ F189, D184, E181, E189
Imasogie, N ........................................... A7
Immint, R .................................................. E204, D69
Imsirovic, J ............................................. D140
Inagaki, M ............................................... F192
Ing, C ....................................................... E190, F151
Inglis-Arkell, C .................................... A6, C10, E16, A5, C9, D9
Ioscovich, A ........................................... D123
Irizarry-Alvarado, J ............................... D172
Ishii, M .................................................... A116, E199
Ishii, Y ..................................................... D133
Ishikita, N .................................................. E82
Itani, K ..................................................... D25
Iwakiri, H ............................................... E12
Iwasaki, T ................................................ D26
Iwata, S .................................................... F26, E83
Izzetoglu, K ........................................... D155
Jabaley, C .......................... A16, F19, C23, F36
Jackson, C ............................................. F168, D56
Jackson, J .............................................. A105, C137, D173
Jackson, K ............................................. F137, E125
Jackson, W .......................................... B191, F152
Jacob, Y ................................................... F113
Jacobsohn, E .......................................... E35
Jacquet-LagrA‘ze, M .................................. C41, D44
Jafari, A ................................................... C50
Jafarieh, A ............................................... E5
Jagannathan, N ..................................... F146
Jakšch, P .................................................. E27
Jalal, A ..................................................... E200
Jalali, A ................................................. A90, D146, E149
Jang, H .................................................... E183
Jang, M .................................................... D142, K29
Janssen, W ............................................. E110
Janhves, M .......................................... C85, E86
Jaromy, M ............................................. C135
Jean, Y ................................................... E84
Jegarli, A ................................................. A15, F18
Jelacic, S ................................................. F201, K33
Jeng, C .................................................... F197, D179, F193

Jensen, A .............................................. F148
Jensen, C .............................................. C55
Jewell, E ............................................... E29
Jha, S ..................................................... D77
Ji, K ............................................... C82, D82
Ji, R ..................................................... D25
Jiang, C ............................................... E104
Jianghua, H .......................................... C61
Jijakl, A ............................................... A72, F119
Jimenez, N ........................................... E10
Jin, R .................................................... E153
Jin, Z ........................................ F181, D16, D17, E184, E185, F13, F14
Jivraj, N ................................................. B180, D134, E165, C20
Joe, Y .................................................... D167
Johal, R .................................................. D71
Johans, C ............................................. A44, E63
Johns, W .............................................. D171
Johnson, A .......................................... C83, E186, F140
Johnson, K ........................................... E21
Johnson-Akeju, O .............................. B174, D64, A65, F106
Johnston, D ........................................... A19, E26
Johnston, T .......................................... C90, E88, D2
Jones, R ................................................ C37, F43
Jones, T ............................................... F156
Jongerius, I ........................................... D69
Jonna, S ............................................. C76, F74, D74, C74, D73, C75, E72
Jord, J .................................................. A83, F138
Joseph, K ............................................... F27
Joseph, T ............................................... B151, E20
Joseph, V ............................................... A84, F139
Joshi, G ................................................. E17, D13
Joyce, M ........................................... C92, F87, C91, D87
Jreige, S ................................................. E151
Jules-Elysee, K ....................................... F21, F29
Jung, C ................................................. F205, D203
Jungworth, B ....................................... D114
Juriga, L ................................................ F53
Kabeja, L ............................................... D67
Kachroo, S ............................................ A41, C65, D61
Kagawa, T ............................................. F145
Kahan, S ................................................. A1
Kainuma, A .......................... A116, E199, D25
Kaiser, H .............................................. F105, D113
Kaizer, A ............................................... C44
Kajstura, T ............................................ A18, E25, E30, E31
Kaku, R ................................................ E89
Kalogjera, D .......................................... B188, F180, B187, E145
Kamath, A ............................................. A44, E63
Kamenetsky, E ....................................... F4
Kanazawa, T .......................................... D26
Kanchi, M ............................................. E33, D30
Kang, C ................................................ D167
Kannappallil, T ................................. D137, K18
Kapoor, A .......................................... B201, D194, K21, SABII
Kapurch, C ........................................... C38
Karabis, A ............................................ A119, C145, F202
AUTHOR INDEX

Karamchandani, K. .............................................. C27, D139, C26
Karkri, F. ................................................................. E35
Kasai, Y. ................................................................. F169
Kashani, H. ................................................................. F20, K31
Kashkoooli, K. ................................................................. B174
Katayama, E. ................................................................. D47
Kato, H. ................................................................. A29, D35, K2, SABIII
Kato, R. ................................................................. A65, F106
Katz, D. ................................................................. F167
Kaul, N. ................................................................. D162
Kaur, J. ................................................................. E70
Kaustov, L. ................................................................. F204
Kavosh, M. ................................................................. F20, K31, E35
Kawakami, A. ................................................................. F30, F28
Kawata, K. ................................................................. E193
Kaynar, A. ................................................................. B200, D191, K9, SABI, E206
Ke, Y. ................................................................. B165, D3, E6
Keegan, J. ................................................................. A28, D36, K12, SABIII
Kehlet, H. ................................................................. B197, D161, K15
Keidan, I. ................................................................. A17, C14, D21
Kelani, H. ................................................................. B157
Kelava, M. ................................................................. A19, E26
Keller, J. ................................................................. E197
Kelly, B. ................................................................. F178
Kelz, M. ................................................................. B154, D102, E113, C95, D94, A70, E118, B150, D15
Kendale, S. ................................................................. A31, C28, D39, D130
Kendall, M. ................................................................. A9, C6
Kenny, J. ................................................................. D116
Kent, D. ................................................................. A13 D18
Kerfeld, M. ................................................................. C15
Kerr, D. ................................................................. D83
Kesari, M. ................................................................. E178
Khairy, M. ................................................................. F198, E198
Khajavii, M. ................................................................. D201, A92, D148
Khan, A. ................................................................. F77
Khan, K. ................................................................. F88
Khan, N. ................................................................. B177
Khan, R. ................................................................. D162
Khanna, A. ................................................................. C40, F44, C39, E45
Khanna, S. ................................................................. C46
Khazan Singh, K. ..................................................... E85
Kherallah, Y. ................................................................. F170, C132
Kheterpal, S. ................................................................. E163
Khoutorsky, A. ................................................................. B193, D151, F28
Khuber, S. ................................................................. A55, C64, E59
Kiberenge, K. ................................................................. E197
Kicler, T. ................................................................. C13, D19, K4, Y
Kieffer, K. ................................................................. A83, F138
Kiel, S. ................................................................. F85
Kilbaugh, T. ................................................................. F53
Kilmartin, E. ................................................................. A46, C66
Kim, A. ................................................................. F85, D75
Kim, C. ................................................................. C101, F93
Kim, D. ................................................................. B170, F62, E183, E8, E18
Kim, H. ................................................................. E183, F70, D169, E194, F123, B152, F88, C84, F84, D57
Kim, J. ................................................................. E6, D204, D3, E205, D84, E162, F171
Kim, M. ................................................................. B185, E136, A89, D144
Kim, R. ................................................................. D168, D118, A26, C17
KIM, S. ................................................................. D142, K29, F2
Kim, T. ................................................................. E21
Kim, W. ................................................................. F67, D57
Kimbrough, M. ......................................................... D38
Kimchi, E. ................................................................. E176
King, A. ................................................................. E7
King, C. ................................................................. B184, E135, D189, A63, D111
King, M. ................................................................. B192, F153
King, N. ................................................................. C85, E86
Kinoshita, M. ................................................................. A116, E199
Kiran, R. ................................................................. B185, E136
Kirksey, M. ................................................................. F129
Kishimoto, N. ................................................................. E114
Kistler, E. ................................................................. D206
Klapper, J. ................................................................. A33, C33
Klatman, K. ................................................................. F86
Kleiman, A. ................................................................. B167, F57, E195, F24
Kleinsteuber, S. ................................................................. E204
Klijian, A. ................................................................. A40, F44
Klinger, R. ................................................................. B156, E132, A61, C116, F101
Kluys, H. ................................................................. E62
Knüfermann, P. ................................................................. A26, C17
Knuth, J. ................................................................. A81, C123, D129
Kobayashi, M. ................................................................. D90
Koch, S. ................................................................. E27
Koessel, S. ................................................................. F199, F182
Koh, W. ................................................................. E8, E183
Kolodzie, K. ................................................................. A102, F172
Komaba, T. ................................................................. F107
Koncarevic, A. ................................................................. C86
Kong, J. ................................................................. B181
Kong, K. ................................................................. A86, E142
Konia, M. ................................................................. E197
Kontar, L. ................................................................. C41, D44
Koo, B. ................................................................. D196
Kopp, C. ................................................................. F10, E22
Kor, D. ................................................................. C15
Korban, A. ................................................................. E196, D54, D7
Kosour, C. ................................................................. A111, E192
Kostrubiai, M. ................................................................. E64
Koulouris, A. ................................................................. E129
Koveleskie, J. ................................................................. A43, C69, D62
Kowaleski, J. ................................................................. C26
Koyama, Y. ................................................................. E9, D6
Kozar, R. ................................................................. A121, E209
Kratzer, S. ................................................................. F108, E22, F10
Kraus, W. ................................................................. B155, D22, K25, SABIII
Kraitz, S. ................................................................. E77, D76
Kreuzer, M. ................................................................. F108, E117, E22, F10
<table>
<thead>
<tr>
<th>Author</th>
<th>Index Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kumar, V.</td>
<td>A37, C42, D45, D159, K20, C131, E171, C132, D157, K30, C133, E174, C134, F177, C138, D178, C37, F43, C63, F51</td>
</tr>
<tr>
<td>Krishnamurthy, P.</td>
<td>B179, D131</td>
</tr>
<tr>
<td>Krishnan, P.</td>
<td>E154</td>
</tr>
<tr>
<td>Krishnaney, A.</td>
<td>C126, E134</td>
</tr>
<tr>
<td>Kristof, A.</td>
<td>F45</td>
</tr>
<tr>
<td>Kroepfl, E.</td>
<td>F161</td>
</tr>
<tr>
<td>Kromah, F.</td>
<td>E61</td>
</tr>
<tr>
<td>Kronzer, A.</td>
<td>B184, E135</td>
</tr>
<tr>
<td>Kruse, J.</td>
<td>C3</td>
</tr>
<tr>
<td>Kruse, T.</td>
<td>E23</td>
</tr>
<tr>
<td>Ku, A.</td>
<td>A24, A23</td>
</tr>
<tr>
<td>Ku, B.</td>
<td>A70, E118, F102, K32</td>
</tr>
<tr>
<td>Ku, C.</td>
<td>D56</td>
</tr>
<tr>
<td>Kuforiji, A.</td>
<td>A1</td>
</tr>
<tr>
<td>Kukreja, J.</td>
<td>D72</td>
</tr>
<tr>
<td>Kukreja, K.</td>
<td>F148</td>
</tr>
<tr>
<td>Kukreja, N.</td>
<td>D72, F194, A49, C67, D58</td>
</tr>
<tr>
<td>Kumar, A.</td>
<td>E3</td>
</tr>
<tr>
<td>Kumar, G.</td>
<td>E106</td>
</tr>
<tr>
<td>Kumar, M.</td>
<td>E120</td>
</tr>
<tr>
<td>Kumar, N.</td>
<td>E182</td>
</tr>
<tr>
<td>Kumar, V.</td>
<td>A8, D10</td>
</tr>
<tr>
<td>Kundu, P.</td>
<td>F113</td>
</tr>
<tr>
<td>Kundurzhiev, T.</td>
<td>F143</td>
</tr>
<tr>
<td>Kunitake, H.</td>
<td>C121, F115</td>
</tr>
<tr>
<td>Kurup, V.</td>
<td>B168, A50, E51</td>
</tr>
<tr>
<td>Kwasniewska, P.</td>
<td>A70, E118, F102, K32</td>
</tr>
<tr>
<td>Kwater, P.</td>
<td>D12</td>
</tr>
<tr>
<td>Kwee, L.</td>
<td>B155, D22, K25, SABII</td>
</tr>
<tr>
<td>Kynes, J.</td>
<td>A45, E65, D79</td>
</tr>
<tr>
<td>Lacagnina, M.</td>
<td>B196, D160, K14</td>
</tr>
<tr>
<td>Laconis, C.</td>
<td>E43</td>
</tr>
<tr>
<td>Ladha, K.</td>
<td>E165</td>
</tr>
<tr>
<td>Laffon, M.</td>
<td>D181</td>
</tr>
<tr>
<td>Lahsaei, P.</td>
<td>F92</td>
</tr>
<tr>
<td>Lai, K.</td>
<td>A67, C120, F109, A66, C119, D107, K13, SABIV</td>
</tr>
<tr>
<td>Lakh, S.</td>
<td>B169, F58</td>
</tr>
<tr>
<td>Lalu, M.</td>
<td>F72, E170, E54, F45</td>
</tr>
<tr>
<td>Lam, E.</td>
<td>D187, D166</td>
</tr>
<tr>
<td>Lam, H.</td>
<td>E147, D145, D150, D20</td>
</tr>
<tr>
<td>Lam, P.</td>
<td>D85</td>
</tr>
<tr>
<td>Lamarche, Y.</td>
<td>C41, D44</td>
</tr>
<tr>
<td>Lampron, J.</td>
<td>F72</td>
</tr>
<tr>
<td>Landau, R.</td>
<td>C81, F82, D121, K17</td>
</tr>
<tr>
<td>Lander, D.</td>
<td>B188, F180</td>
</tr>
<tr>
<td>Landis, W.</td>
<td>D155</td>
</tr>
<tr>
<td>Landsittel, D.</td>
<td>B200, D191, K9, SABI</td>
</tr>
<tr>
<td>Lane-Fall, M.</td>
<td>C47</td>
</tr>
<tr>
<td>Laney, J.</td>
<td>D86</td>
</tr>
<tr>
<td>Lapere, C.</td>
<td>F165</td>
</tr>
<tr>
<td>Laplace, D.</td>
<td>E191</td>
</tr>
<tr>
<td>LaSorda, K.</td>
<td>A75, F125, A74, D124</td>
</tr>
<tr>
<td>Lata, S.</td>
<td>F3</td>
</tr>
<tr>
<td>Laudanski, K.</td>
<td>E167</td>
</tr>
<tr>
<td>Lavado, I.</td>
<td>D112</td>
</tr>
<tr>
<td>Lawrence, C.</td>
<td>C13, D19, K4, Y</td>
</tr>
<tr>
<td>Lawson, K.</td>
<td>A45, E65</td>
</tr>
<tr>
<td>Laxton, M.</td>
<td>E186</td>
</tr>
<tr>
<td>Lazar, D.</td>
<td>E93</td>
</tr>
<tr>
<td>Lazaridou, A.</td>
<td>E129</td>
</tr>
<tr>
<td>Lazer, A.</td>
<td>D4</td>
</tr>
<tr>
<td>Le, T.</td>
<td>A21, D23, K24, SABIII</td>
</tr>
<tr>
<td>LeBlanc, B.</td>
<td>A93, F154</td>
</tr>
<tr>
<td>Lebogov, G.</td>
<td>E196</td>
</tr>
<tr>
<td>Lederer, J.</td>
<td>A28, D36, K12, SABIII</td>
</tr>
<tr>
<td>Lee, A.</td>
<td>F159, A51, E52</td>
</tr>
<tr>
<td>Lee, B.</td>
<td>C126, E134, B162, D34, K1, SABI</td>
</tr>
<tr>
<td>Lee, D.</td>
<td>C4, F59</td>
</tr>
<tr>
<td>Lee, J.</td>
<td>E106</td>
</tr>
<tr>
<td>Lee, K.</td>
<td>A18</td>
</tr>
<tr>
<td>Lee, M.</td>
<td>F67</td>
</tr>
<tr>
<td>Lee, R.</td>
<td>C43, F70</td>
</tr>
<tr>
<td>Lee, S.</td>
<td>E155</td>
</tr>
<tr>
<td>LeFevre, A.</td>
<td>E147</td>
</tr>
<tr>
<td>Leff, J.</td>
<td>F63</td>
</tr>
<tr>
<td>Lefkov, J.</td>
<td>D128, K5</td>
</tr>
<tr>
<td>Leggett, A.</td>
<td>A94, D154, SABIV, E38</td>
</tr>
<tr>
<td>Lehmann, C.</td>
<td>E140</td>
</tr>
<tr>
<td>Léhoux, D.</td>
<td>A14, F15</td>
</tr>
<tr>
<td>Leibowitz, A.</td>
<td>B169, F58</td>
</tr>
<tr>
<td>Lele, A.</td>
<td>A37, C42, D45</td>
</tr>
<tr>
<td>Lenartova, K.</td>
<td>E85</td>
</tr>
<tr>
<td>Leone, A.</td>
<td>F31</td>
</tr>
<tr>
<td>Leopold, D.</td>
<td>A117, C142, D200</td>
</tr>
<tr>
<td>Lett, R.</td>
<td>E133</td>
</tr>
<tr>
<td>Leung, J.</td>
<td>C128, D63</td>
</tr>
<tr>
<td>Levesque, S.</td>
<td>C41, D44</td>
</tr>
<tr>
<td>Levin, B.</td>
<td>C87</td>
</tr>
<tr>
<td>Levin, M.</td>
<td>B169, F58</td>
</tr>
<tr>
<td>Levy, R.</td>
<td>A95, C11, F9</td>
</tr>
<tr>
<td>Le-Wendling, L.</td>
<td>B182, E130, E181, E189, F190, D197</td>
</tr>
<tr>
<td>Li, G.</td>
<td>B190, F151, B185, E136</td>
</tr>
<tr>
<td>Li, J.</td>
<td>D206, A66, C119, D107, K13, SABIV, A67, C120, F109</td>
</tr>
<tr>
<td>Li, R.</td>
<td>F181, D16, D17, E184, E185, F13, F14</td>
</tr>
<tr>
<td>Li, Y.</td>
<td>E6</td>
</tr>
<tr>
<td>Liang, T.</td>
<td>E23</td>
</tr>
<tr>
<td>Lieberman, J.</td>
<td>D176</td>
</tr>
<tr>
<td>Lien, C.</td>
<td>E58</td>
</tr>
<tr>
<td>Lihn, A.</td>
<td>F178</td>
</tr>
<tr>
<td>Lim, A.</td>
<td>C107, E101</td>
</tr>
<tr>
<td>Lim, G.</td>
<td>A75, F125, A74, D124</td>
</tr>
<tr>
<td>Author</td>
<td>Pages</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Lin, C.</td>
<td>A120, E207</td>
</tr>
<tr>
<td>Lin, H.</td>
<td>B169, F58</td>
</tr>
<tr>
<td>Lin, J.</td>
<td>A103, D16, D17, E184, E185, F13, F14, F181</td>
</tr>
<tr>
<td>Lin, N.</td>
<td>A63, D111, E113</td>
</tr>
<tr>
<td>Linares-Perdomo, O.</td>
<td>E21</td>
</tr>
<tr>
<td>Lindberg-Larsen, V.</td>
<td>B197, D161, K15</td>
</tr>
<tr>
<td>Lindenauer, P.</td>
<td>C138, D178, C131, E171</td>
</tr>
<tr>
<td>Lindenmuth, D.</td>
<td>E179</td>
</tr>
<tr>
<td>Lindsey, S.</td>
<td>F123</td>
</tr>
<tr>
<td>Linton, M.</td>
<td>A107, E177</td>
</tr>
<tr>
<td>Lipschuetz, M.</td>
<td>A76, D125</td>
</tr>
<tr>
<td>Lipsitz, L.</td>
<td>F97</td>
</tr>
<tr>
<td>Lirk, P.</td>
<td>A108, E180</td>
</tr>
<tr>
<td>Lisboa, C.</td>
<td>A12, C12, E19</td>
</tr>
<tr>
<td>Little, M.</td>
<td>F156</td>
</tr>
<tr>
<td>Liu, A.</td>
<td>A29, D35, K2, SABIII</td>
</tr>
<tr>
<td>Liu, C.</td>
<td>A96, E156</td>
</tr>
<tr>
<td>Liu, H.</td>
<td>F13, D17, E184</td>
</tr>
<tr>
<td>Liu, J.</td>
<td>F181, E184, E185, F13, F14</td>
</tr>
<tr>
<td>Liu, K.</td>
<td>F111</td>
</tr>
<tr>
<td>Liu, L.</td>
<td>F64</td>
</tr>
<tr>
<td>Liu, Q.</td>
<td>E104, F111</td>
</tr>
<tr>
<td>Liu, X.</td>
<td>E104</td>
</tr>
<tr>
<td>Lodewyks, C.</td>
<td>F20, K31</td>
</tr>
<tr>
<td>Lofwall, M.</td>
<td>F136</td>
</tr>
<tr>
<td>Logan, S.</td>
<td>E104</td>
</tr>
<tr>
<td>Lombard, F.</td>
<td>A36, C34, D42</td>
</tr>
<tr>
<td>Long, D.</td>
<td>B194, C130, D158, K19, SABII</td>
</tr>
<tr>
<td>Long, M.</td>
<td>C98</td>
</tr>
<tr>
<td>Long, T.</td>
<td>C134, F177</td>
</tr>
<tr>
<td>Longhitano, Y.</td>
<td>F171, D84, E162</td>
</tr>
<tr>
<td>LoPachin, R.</td>
<td>F135</td>
</tr>
<tr>
<td>Lopez, M.</td>
<td>F29</td>
</tr>
<tr>
<td>Lorello, G.</td>
<td>F60, D59, E53</td>
</tr>
<tr>
<td>Lorinc, A.</td>
<td>B186, D150, E140</td>
</tr>
<tr>
<td>Lotz, D.</td>
<td>C88</td>
</tr>
<tr>
<td>Lotze, F.</td>
<td>E201</td>
</tr>
<tr>
<td>Lou, P.</td>
<td>D53</td>
</tr>
<tr>
<td>Louro, J.</td>
<td>C105, E95, D205, D207, D74</td>
</tr>
<tr>
<td>Love, C.</td>
<td>F120</td>
</tr>
<tr>
<td>Lovett-Carter, D.</td>
<td>A9, C6, C91, D87, C92, F87</td>
</tr>
<tr>
<td>Low, Y.</td>
<td>E172</td>
</tr>
<tr>
<td>Loyd, J.</td>
<td>F185</td>
</tr>
<tr>
<td>Loydpierson, A.</td>
<td>B152</td>
</tr>
<tr>
<td>Lu, N.</td>
<td>C75, E72</td>
</tr>
<tr>
<td>Lucchinetti, E.</td>
<td>D53</td>
</tr>
<tr>
<td>Ludington, J.</td>
<td>C1, D1</td>
</tr>
<tr>
<td>Luedi, M.</td>
<td>D113</td>
</tr>
<tr>
<td>Lukovic, E.</td>
<td>A113, C78, E76</td>
</tr>
<tr>
<td>Luo, G.</td>
<td>F124</td>
</tr>
<tr>
<td>Lupei, M.</td>
<td>C44</td>
</tr>
<tr>
<td>Lurie, B.</td>
<td>B166</td>
</tr>
<tr>
<td>Luthra, A.</td>
<td>F127</td>
</tr>
<tr>
<td>Lydic, R.</td>
<td>F117</td>
</tr>
<tr>
<td>Lyman, M.</td>
<td>F185</td>
</tr>
<tr>
<td>Lynch, J.</td>
<td>B194, C130, D158, K19, SABII</td>
</tr>
<tr>
<td>Lynch, K.</td>
<td>C59</td>
</tr>
<tr>
<td>Lyon, N.</td>
<td>E132</td>
</tr>
<tr>
<td>Lytle, F.</td>
<td>C113, C103</td>
</tr>
<tr>
<td>Ma, Q.</td>
<td>B175, A71</td>
</tr>
<tr>
<td>Ma, X.</td>
<td>B190, F151, C21</td>
</tr>
<tr>
<td>Macario, A.</td>
<td>F64</td>
</tr>
<tr>
<td>Machado, D.</td>
<td>E87</td>
</tr>
<tr>
<td>Machina, M.</td>
<td>E115</td>
</tr>
<tr>
<td>Maciver, B.</td>
<td>E115</td>
</tr>
<tr>
<td>Mack, R.</td>
<td>A15, F18</td>
</tr>
<tr>
<td>Mackay, E.</td>
<td>C47</td>
</tr>
<tr>
<td>Mackenzie, C.</td>
<td>A120, E207</td>
</tr>
<tr>
<td>Mackenzie, W.</td>
<td>A91, D147, F156</td>
</tr>
<tr>
<td>Mackey, C.</td>
<td>C40, F44, C39, E45</td>
</tr>
<tr>
<td>Mackey, S.</td>
<td>B181, B179, D131</td>
</tr>
<tr>
<td>MacLeod, B.</td>
<td>E18</td>
</tr>
<tr>
<td>Macpherson, J.</td>
<td>C82, D82</td>
</tr>
<tr>
<td>Madan, K.</td>
<td>A8, D10</td>
</tr>
<tr>
<td>Madden, L.</td>
<td>C45, D46, C23, F36</td>
</tr>
<tr>
<td>Maddipati, K.</td>
<td>A62, E108</td>
</tr>
<tr>
<td>Mahajan, A.</td>
<td>B200, D191, K9, SABII</td>
</tr>
<tr>
<td>Maile, M.</td>
<td>E29</td>
</tr>
<tr>
<td>Maitra, S.</td>
<td>F141, E39</td>
</tr>
<tr>
<td>Makarevich, O.</td>
<td>B177</td>
</tr>
<tr>
<td>Mak-McCully, R.</td>
<td>E113</td>
</tr>
<tr>
<td>Malbrue, R.</td>
<td>B157</td>
</tr>
<tr>
<td>Malherbe, S.</td>
<td>E154</td>
</tr>
<tr>
<td>Mallari, O.</td>
<td>A65, F106</td>
</tr>
<tr>
<td>Malviya, S.</td>
<td>A97, D152</td>
</tr>
<tr>
<td>Maman, S.</td>
<td>A104, E168, D139, E169</td>
</tr>
<tr>
<td>Manahan, G.</td>
<td>C84, F84, F88</td>
</tr>
<tr>
<td>Mangus, R.</td>
<td>F161</td>
</tr>
<tr>
<td>Maniker, R.</td>
<td>F199, F182</td>
</tr>
<tr>
<td>Mankowitz, S.</td>
<td>E122</td>
</tr>
<tr>
<td>Mannes, A.</td>
<td>B152</td>
</tr>
<tr>
<td>Manning, M.</td>
<td>A33, C33</td>
</tr>
<tr>
<td>Manuel, S.</td>
<td>A6, C10, E16, D176, A5, C9, D9</td>
</tr>
<tr>
<td>Mao, J.</td>
<td>A80</td>
</tr>
<tr>
<td>Maraschalchi, B.</td>
<td>B178, E124</td>
</tr>
<tr>
<td>Marcantonio, E.</td>
<td>F31</td>
</tr>
<tr>
<td>Marggraf, V.</td>
<td>A26, C17</td>
</tr>
<tr>
<td>Mariano, E</td>
<td>B201, D194, K21, SABII</td>
</tr>
<tr>
<td>Mark, L.</td>
<td>C3</td>
</tr>
<tr>
<td>Marota, J.</td>
<td>A14, F15</td>
</tr>
<tr>
<td>Marouki, M.</td>
<td>C46</td>
</tr>
<tr>
<td>Marsh, B.</td>
<td>F126</td>
</tr>
<tr>
<td>Marshall, M.</td>
<td>F38</td>
</tr>
<tr>
<td>Martin, B.</td>
<td>A36, C34, D42</td>
</tr>
<tr>
<td>Martin, S.</td>
<td>A93, F154</td>
</tr>
<tr>
<td>Martinez, R.</td>
<td>C90, E88, C89, D88</td>
</tr>
<tr>
<td>Martinez Ruiz, R.</td>
<td>C76, F74, C74, D73, C75, E72</td>
</tr>
<tr>
<td>Martinez-Acero, N.</td>
<td>A24</td>
</tr>
<tr>
<td>Mashour, G.</td>
<td>E113</td>
</tr>
<tr>
<td>Massicotte, L.</td>
<td>D68</td>
</tr>
<tr>
<td>Masters, N.</td>
<td>D207</td>
</tr>
<tr>
<td>Matava, A.</td>
<td>F204, F200</td>
</tr>
</tbody>
</table>
AUTHOR INDEX

Mathews, D. ................. F162
Mathur, N. ........................................ D5
Mathur, P. ......................... C46, C126, E134
Mathur, S. ............................. D165, D90
Matsuoka, Y. ....... E89
Matsusaki, T. .......................... E89
Matsumi, H. ......................... E89
Matthay, M. .......... A29, D35, K2, SABIII, D33, K8
Mavarez-Martinez, A. .......... F131, D169, E116
Mayes, L. ................................. A99
Mayman, D. ......................... F21
Maze, M. .......... A67, C120, F109, A66, C119, D107, K13, SABIV
Mazzarello, S. ................. E170
Mazzotti, M. ...................... E150
McCall, J. ......................... D135
McCallum, S. .................. A15, F18
McCarthy, A. ..................... A75, F125
McCarthy, K. ................ A2, C5, F6
McCartney, C. ................ F184, E182
McCartney, K. ..................... F64
McCaul, C. ......................... A2, C5, F6
McClain, L. ....................... A74, D124
McCloskey, J. ............... F53
McCormick, P. ................. F113
McDonald, M. .................. C47
McDowell, B. ................... C27
McGilvra, J. ....................... A15, F18
McGinn, R. ....................... F45, E54
McGlenn, D. ................. B168
McGrath, M. ....... B153, E24, F16
McGuinness, B. ................................. E165
McHardy, P. ..................... F204
McIsaac, D. .................... F72, E170, F71
McKeever, J. ...................... D57
McKenny, M. ...................... D177
McKinstry-Wu, A ............... B154, F102, K32, A70, E118
McLarney, T. .......... A52, E55
McLaughlin, K. ................. C93, D89, E90
McLawhorn, A. ......... F21
McLean, D. ..................... C131, E171
McNamara, C. ................... C83
McQueen, K. ..................... A45, E65
McQuitty, A. ..................... D29
Medellin, E. ..................... F155
Medina, J. ..................... D3
Mehdiratta, N. ........... A105, C137, D173
Mehrnia, O. ......................... E91
Mehta, A. ...................... A19, E26
Mek, A. ......................... A16, F19
Mekonnen, J. ...................... D64
Melkonakos, E. ............. A65, F106
Memtsoudis, S. .................. F195
Mendez, N. ..................... F173
Menger, J. ..................... E27
Mensinger, J. ................. D155
Merchant, R. .......... D192, K22
Merchant, S. .................. A55, C64, E59
Mershon, B. .................. F142
Mester, R. ......................... E67
Meyer, J. ......................... D79
Meyer, L. ......................... A16, F19
Mii, W. .............................. F117
Miano, T. ......................... C47
Miao, J. ......................... A80
Michaelsen, K. .............. F201, K33
Michaille, J. ....................... B157
Mickle, A. ......................... E35
Miki, A. ......................... B157
Miki, M. ......................... B159, C158, D31
Miliaides, A. ................. A53, F61, D2
Min, K. ......................... F110, E46
Minc, C. ......................... F113
Minshall, R. ................. C94, E92
Mintz-Cole, R. ............... C48, D48, F3
Mishra, S. ....................... A8, D10
Mistry, N. ......................... E105
Misulis, E. ................. C85, E86
Mitchell, A. ..................... C106, E98
Mitchell, J. ....................... D56
Mitchell, T. ....................... E64
Mithani, M. ........................... E132
Mitrophanov, A. .......... D209
Mittel, A. ................. B170, F62, D25, F34
Mizobuchi, Y. ................. D90
Mladinov, D. ................... C13, D19, K4, Y
Moffatt-Bruce, S. .......... E159
Mogulevitch, M. ................. F80
Mohamed, D. ................. F198, E198
Mohammed, A. ................. D170
Mohan, A. ......................... A8, D10
Mohapatra, B. ................. C83, C104
Mokdad, A. ..................... A44, E63
Moll, V. ......................... C94, E92
Molyneaux, I. .................... C49
Molyneyeux, M. .......... D170
Moncrief, M. ................. B167, F57
Mongone, J. ....................... E93
Montoya-Gacharna, J. ........ D24, K11
Moore, B. ................. B159, C19, E34, B158, C18, D31
Moore, S. ...................... C132, D157, K30
Moravcova, S. .................. E85
Moreno-Garcia, M. .............. B172, SABIV
Moretti, E. .................. A59, C115, D104, K26, SABIV Y
Moriau, V. .................... D67
Morimatsu, H. ................. E89, D26, D47, D90
<table>
<thead>
<tr>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mujumdar, S.</td>
<td>B183, C125, D136, K6, SABII, Y</td>
</tr>
<tr>
<td>Mueller, A.</td>
<td>F31, F168</td>
</tr>
<tr>
<td>Mudumbai, S.</td>
<td>B201, D194, K21, SABII</td>
</tr>
<tr>
<td>Mulaikal, T.</td>
<td>A53, F61</td>
</tr>
<tr>
<td>Myer, J.</td>
<td>D8</td>
</tr>
<tr>
<td>Mu, J.</td>
<td>F111</td>
</tr>
<tr>
<td>Mubashir, T.</td>
<td>D190, D186, D187</td>
</tr>
<tr>
<td>Mudd, P.</td>
<td>E70</td>
</tr>
<tr>
<td>Mudumbai, S.</td>
<td>B201, D194, K21, SABII</td>
</tr>
<tr>
<td>Mueller, A.</td>
<td>F31, F168</td>
</tr>
<tr>
<td>Mujumdar, S.</td>
<td>B183, C125, D136, K6, SABII, Y</td>
</tr>
<tr>
<td>Mukherji, J.</td>
<td>F73, D41, F27</td>
</tr>
<tr>
<td>Mulaikal, T.</td>
<td>A53, F61</td>
</tr>
<tr>
<td>Mundangepfupfu, T.</td>
<td>C82, D82, C29, E41, C31, C79</td>
</tr>
<tr>
<td>Munroop, T.</td>
<td>D69</td>
</tr>
<tr>
<td>Munlemvo, D.</td>
<td>E62</td>
</tr>
<tr>
<td>Munoz, P.</td>
<td>C55</td>
</tr>
<tr>
<td>Mun-Price, C.</td>
<td>D149</td>
</tr>
<tr>
<td>Munshi, N.</td>
<td>C44</td>
</tr>
<tr>
<td>Murali, M.</td>
<td>E33</td>
</tr>
<tr>
<td>Murdoch, D.</td>
<td>A59, C115, D104, K26, SABIV, Y</td>
</tr>
<tr>
<td>Murphy, S.</td>
<td>F120</td>
</tr>
<tr>
<td>Murphy, W.</td>
<td>E173, D171</td>
</tr>
<tr>
<td>Murthy, S.</td>
<td>A58, D66</td>
</tr>
<tr>
<td>Muscoreel, A.</td>
<td>F140</td>
</tr>
<tr>
<td>Musicw, E.</td>
<td>B161, C22, D32, K7, SABI</td>
</tr>
<tr>
<td>Musuku, S.</td>
<td>D5</td>
</tr>
<tr>
<td>Myers, L.</td>
<td>F46</td>
</tr>
<tr>
<td>Nadarajah, C.</td>
<td>B161, C22, D32, K7, SABI</td>
</tr>
<tr>
<td>Nafiu, O.</td>
<td>A97, D152, D143, F121</td>
</tr>
<tr>
<td>Nagababu, E.</td>
<td>C13, D19, K4, Y</td>
</tr>
<tr>
<td>Nagappa, M.</td>
<td>D190</td>
</tr>
<tr>
<td>Nagle, H.</td>
<td>A81, C123, D129</td>
</tr>
<tr>
<td>Nagoshi, M.</td>
<td>D149</td>
</tr>
<tr>
<td>Nagrebetsky, A.</td>
<td>C4, F59</td>
</tr>
<tr>
<td>Naik, B.</td>
<td>E43, D117, D55</td>
</tr>
<tr>
<td>Nair, B.</td>
<td>F201, K33</td>
</tr>
<tr>
<td>Nair, P.</td>
<td>D30</td>
</tr>
<tr>
<td>Nair, S.</td>
<td>A87, E143, D11, F118, F132, F183, F63</td>
</tr>
<tr>
<td>Naito, Y.</td>
<td>A116, E199, D33, K8</td>
</tr>
<tr>
<td>Najafi, A.</td>
<td>D201</td>
</tr>
<tr>
<td>Nakadate, Y.</td>
<td>B193, D151, F28, F30</td>
</tr>
<tr>
<td>Nakahori, Y.</td>
<td>A28, D36, K12, SABIII</td>
</tr>
<tr>
<td>Nakajima, Y.</td>
<td>D25</td>
</tr>
<tr>
<td>Nakamura, R.</td>
<td>D47</td>
</tr>
<tr>
<td>Nakatsuka, H.</td>
<td>D133</td>
</tr>
<tr>
<td>Nakazawa, K.</td>
<td>F26, E83</td>
</tr>
<tr>
<td>Nam, C.</td>
<td>A55, C64, E59</td>
</tr>
<tr>
<td>Namirian, K.</td>
<td>F133</td>
</tr>
<tr>
<td>Napan, C.</td>
<td>F112</td>
</tr>
<tr>
<td>Napan, J.</td>
<td>F112</td>
</tr>
<tr>
<td>Napoleonone, G.</td>
<td>D192, K22</td>
</tr>
<tr>
<td>Nathanson, B.</td>
<td>C131, E171</td>
</tr>
<tr>
<td>Nathoe, H.</td>
<td>D177</td>
</tr>
<tr>
<td>Naughton, J.</td>
<td>E191</td>
</tr>
<tr>
<td>Navarrete, S.</td>
<td>C96, D95, D4</td>
</tr>
<tr>
<td>Nazemian, R.</td>
<td>F194, E50</td>
</tr>
<tr>
<td>Nazemian Yazdi, N.</td>
<td>E5</td>
</tr>
<tr>
<td>Neder, J.</td>
<td>B165, A40, F50</td>
</tr>
<tr>
<td>Nehme, P.</td>
<td>D8</td>
</tr>
<tr>
<td>Neifert, S.</td>
<td>F54</td>
</tr>
<tr>
<td>Neilson, C.</td>
<td>F20, K31</td>
</tr>
<tr>
<td>Nelson, O.</td>
<td>D155</td>
</tr>
<tr>
<td>Nemergut, E.</td>
<td>B167, F57, D117, E195</td>
</tr>
<tr>
<td>Ness, P.</td>
<td>C13, D19, K4, Y</td>
</tr>
<tr>
<td>Neudecker, V.</td>
<td>A60, D103, K3, SABIV</td>
</tr>
<tr>
<td>Neufeld, K.</td>
<td>A57, D65</td>
</tr>
<tr>
<td>Neumüller, T.</td>
<td>D115</td>
</tr>
<tr>
<td>Ngo, J.</td>
<td>D91</td>
</tr>
<tr>
<td>Nguyen, A.</td>
<td>C48, D48</td>
</tr>
<tr>
<td>Nguyen, D.</td>
<td>A54, E56, A52, E55</td>
</tr>
<tr>
<td>Nguyen, F.</td>
<td>F72</td>
</tr>
<tr>
<td>Nguyen, J.</td>
<td>A28, D36, K12, SABIII</td>
</tr>
<tr>
<td>Nguyen, K.</td>
<td>F155, E150</td>
</tr>
<tr>
<td>Nguyen, L.</td>
<td>D12</td>
</tr>
<tr>
<td>Nguyen, T.</td>
<td>D150</td>
</tr>
<tr>
<td>Nguyen, V.</td>
<td>E191</td>
</tr>
<tr>
<td>Ni Mhuircheartaigh, R.</td>
<td>A2, C5, F6</td>
</tr>
<tr>
<td>Nicolau-Raducu, R.</td>
<td>F173</td>
</tr>
<tr>
<td>Niemann, C.</td>
<td>A102, F172</td>
</tr>
<tr>
<td>NIIHARA, F.</td>
<td>F192</td>
</tr>
<tr>
<td>Nin, O.</td>
<td>E189, D183, D184</td>
</tr>
<tr>
<td>Nir, E.</td>
<td>A76, D125</td>
</tr>
<tr>
<td>Nir, T.</td>
<td>F113</td>
</tr>
<tr>
<td>Nishiwaki, K.</td>
<td>F107</td>
</tr>
<tr>
<td>Nomura, M.</td>
<td>E83, E12</td>
</tr>
<tr>
<td>Noor, Y.</td>
<td>F4</td>
</tr>
<tr>
<td>Noriega, R.</td>
<td>A83, F31</td>
</tr>
<tr>
<td>Nossaman, B.</td>
<td>A93, F154, D70, D71, E7</td>
</tr>
<tr>
<td>Nourmahnad, A.</td>
<td>F178</td>
</tr>
<tr>
<td>Nunnally, M.</td>
<td>A31, C28, D39</td>
</tr>
<tr>
<td>Nuovo, G.</td>
<td>B157</td>
</tr>
<tr>
<td>Nuzzo, P.</td>
<td>F136</td>
</tr>
<tr>
<td>Nwaneshiudu, C.</td>
<td>A78, D127</td>
</tr>
<tr>
<td>Oberhaus, J.</td>
<td>E35</td>
</tr>
<tr>
<td>Obert, D.</td>
<td>E117</td>
</tr>
<tr>
<td>O’Brien, E.</td>
<td>D92</td>
</tr>
<tr>
<td>Ocon, A.</td>
<td>A81, C123, D129</td>
</tr>
<tr>
<td>O’Connor, M.</td>
<td>F170</td>
</tr>
<tr>
<td>O’Garra, B.</td>
<td>F31</td>
</tr>
<tr>
<td>Author Name</td>
<td>Paper Reference(s)</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Ogunyemi, E.</td>
<td>E99</td>
</tr>
<tr>
<td>Oguz, D.</td>
<td>E79, E187</td>
</tr>
<tr>
<td>Oh, E.</td>
<td>A57, D65</td>
</tr>
<tr>
<td>Oh, T.</td>
<td>F41</td>
</tr>
<tr>
<td>Ohara, J.</td>
<td>A116, E199</td>
</tr>
<tr>
<td>Ohnuma, T.</td>
<td>C138, D178, D159,</td>
</tr>
<tr>
<td></td>
<td>K20, C132, D157,</td>
</tr>
<tr>
<td></td>
<td>K30</td>
</tr>
<tr>
<td>Oji, M.</td>
<td>F169</td>
</tr>
<tr>
<td>Oji, N.</td>
<td>F169</td>
</tr>
<tr>
<td>Okabe, K.</td>
<td>E193</td>
</tr>
<tr>
<td>Okocha, O.</td>
<td>A20, E28</td>
</tr>
<tr>
<td>Olfsen, M.</td>
<td>B190, F151</td>
</tr>
<tr>
<td>Oliveira, S.</td>
<td>F11, E164</td>
</tr>
<tr>
<td>Oliver, J.</td>
<td>F121</td>
</tr>
<tr>
<td>Olsen, B.</td>
<td>A54, E56</td>
</tr>
<tr>
<td>Omigbodun, A.</td>
<td>E62</td>
</tr>
<tr>
<td>Omiya, H.</td>
<td>F89, D101</td>
</tr>
<tr>
<td>Omoigui, S.</td>
<td>A109, C139, F186</td>
</tr>
<tr>
<td>Ono, K.</td>
<td>E138</td>
</tr>
<tr>
<td>Ono, M.</td>
<td>F169</td>
</tr>
<tr>
<td>Ooi, G.</td>
<td>A46, C66</td>
</tr>
<tr>
<td>Oomen, A.</td>
<td>F156</td>
</tr>
<tr>
<td>O'Reilly-Shah, V.</td>
<td>A16, F19</td>
</tr>
<tr>
<td>Orfila, J.</td>
<td>B172, SABI, A64</td>
</tr>
<tr>
<td>Orhurhu, V.</td>
<td>E126</td>
</tr>
<tr>
<td>Orman, S.</td>
<td>E126</td>
</tr>
<tr>
<td>Ortiz, C.</td>
<td>A21, D23, K24, SABIII</td>
</tr>
<tr>
<td>Oshika, H.</td>
<td>D6</td>
</tr>
<tr>
<td>Osmanli, B.</td>
<td>D130</td>
</tr>
<tr>
<td>Otake, H.</td>
<td>F192</td>
</tr>
<tr>
<td>Otterbein, L.</td>
<td>A28, D36, K12, SABIII</td>
</tr>
<tr>
<td>Ouanes, J.</td>
<td>A57, D65</td>
</tr>
<tr>
<td>Overbeek, C.</td>
<td>E35</td>
</tr>
<tr>
<td>Overholt, A.</td>
<td>E57</td>
</tr>
<tr>
<td>Owais, M.</td>
<td>B203, C144, D195, K16</td>
</tr>
<tr>
<td>Oyama, Y.</td>
<td>B160</td>
</tr>
<tr>
<td>Oyeyemi, D.</td>
<td>A59, C115, D104, K26, SABIV, Y</td>
</tr>
<tr>
<td>Ozaki, M.</td>
<td>F26, E12, E83</td>
</tr>
<tr>
<td>Pérusse, P.</td>
<td>D28</td>
</tr>
<tr>
<td>Pace, N.</td>
<td>E21</td>
</tr>
<tr>
<td>Pack, M.</td>
<td>B150, D15</td>
</tr>
<tr>
<td>Padjen, K.</td>
<td>D130</td>
</tr>
<tr>
<td>Padnekar, G.</td>
<td>D187</td>
</tr>
<tr>
<td>Paganelli, W.</td>
<td>F162, E64</td>
</tr>
<tr>
<td>Page, M.</td>
<td>F1</td>
</tr>
<tr>
<td>Pagel, P.</td>
<td>E58</td>
</tr>
<tr>
<td>Pahade, A.</td>
<td>F174</td>
</tr>
<tr>
<td>Pai, S.</td>
<td>D172</td>
</tr>
<tr>
<td>Palanca, B.</td>
<td>E113</td>
</tr>
<tr>
<td>Palaniappan, D.</td>
<td>D85, E35</td>
</tr>
<tr>
<td>Palermo, J.</td>
<td>A70, E118, F102, K32</td>
</tr>
<tr>
<td>Palettas, M.</td>
<td>F39, E194</td>
</tr>
<tr>
<td>Palleschi, G.</td>
<td>A73, C127, F122</td>
</tr>
<tr>
<td>Palmer, J.</td>
<td>E43</td>
</tr>
<tr>
<td>Palmer, K.</td>
<td>F170</td>
</tr>
<tr>
<td>Palmer, L.</td>
<td>C68, C35</td>
</tr>
<tr>
<td>Palmisano, E.</td>
<td>A44, E63</td>
</tr>
<tr>
<td>Pandey, C.</td>
<td>F187</td>
</tr>
<tr>
<td>Pandharipande, P.</td>
<td>A105, C137, D173</td>
</tr>
<tr>
<td>Panwar, R.</td>
<td>C40, F44</td>
</tr>
<tr>
<td>Panzer, O.</td>
<td>C89, D88</td>
</tr>
<tr>
<td>Paoletti, B.</td>
<td>F194</td>
</tr>
<tr>
<td>Papadimos, T.</td>
<td>B203, C144, D195,</td>
</tr>
<tr>
<td></td>
<td>K16, E97, A55, C64, E59</td>
</tr>
<tr>
<td>Paparisto, E.</td>
<td>D93</td>
</tr>
<tr>
<td>Pappada, S.</td>
<td>B203, C144, D195,</td>
</tr>
<tr>
<td></td>
<td>K16, E97, A55, C64, E59</td>
</tr>
<tr>
<td>Parikh, S.</td>
<td>D12</td>
</tr>
<tr>
<td>Park, C.</td>
<td>F193</td>
</tr>
<tr>
<td>Park, H.</td>
<td>E8, F70, A29, D35, K2, SABIII</td>
</tr>
<tr>
<td>Park, J.</td>
<td>F175</td>
</tr>
<tr>
<td>Park, S.</td>
<td>F175, C95, D94</td>
</tr>
<tr>
<td>Park, Y.</td>
<td>F64</td>
</tr>
<tr>
<td>Parks, M.</td>
<td>F129</td>
</tr>
<tr>
<td>Parniani, A.</td>
<td>C26</td>
</tr>
<tr>
<td>Parsons, C.</td>
<td>A23</td>
</tr>
<tr>
<td>Parvataneni, H.</td>
<td>F189, D105, K28, E189</td>
</tr>
<tr>
<td>Pasnak, J.</td>
<td>D171</td>
</tr>
<tr>
<td>Passe, M.</td>
<td>C15</td>
</tr>
<tr>
<td>Pasternak, J.</td>
<td>D108, C117, E112</td>
</tr>
<tr>
<td>Patel, A.</td>
<td>D208, E139</td>
</tr>
<tr>
<td>Patel, B.</td>
<td>E77</td>
</tr>
<tr>
<td>Patel, D.</td>
<td>C45, D46, E150, F155</td>
</tr>
<tr>
<td>Patel, N.</td>
<td>D29</td>
</tr>
<tr>
<td>Patel, P.</td>
<td>C49</td>
</tr>
<tr>
<td>Patel, R.</td>
<td>C96, D95</td>
</tr>
<tr>
<td>Patel, S.</td>
<td>E167</td>
</tr>
<tr>
<td>Patino Montoya, M.</td>
<td>B196, D160, K14</td>
</tr>
<tr>
<td>Patten, L.</td>
<td>C44</td>
</tr>
<tr>
<td>Pearson, A.</td>
<td>A47</td>
</tr>
<tr>
<td>Pearson, J.</td>
<td>D202</td>
</tr>
<tr>
<td>Pearson, K.</td>
<td>F22</td>
</tr>
<tr>
<td>Peck, J.</td>
<td>E126</td>
</tr>
<tr>
<td>Pedemonte, J.</td>
<td>B174</td>
</tr>
<tr>
<td>Peden, C.</td>
<td>F69, F171</td>
</tr>
<tr>
<td>Pedersen, J.</td>
<td>A83, F138</td>
</tr>
<tr>
<td>Peelen, L.</td>
<td>D177</td>
</tr>
<tr>
<td>Peffley, N.</td>
<td>C73, C38</td>
</tr>
<tr>
<td>Pelosi, P.</td>
<td>A12, C12, E19</td>
</tr>
<tr>
<td>Pena, J.</td>
<td>D2</td>
</tr>
<tr>
<td>Penna, A.</td>
<td>F130, D112</td>
</tr>
<tr>
<td>Pennington, C.</td>
<td>E159</td>
</tr>
<tr>
<td>Pennycuff, J.</td>
<td>C50</td>
</tr>
<tr>
<td>Pepin, M.</td>
<td>C138, D178, D159,</td>
</tr>
<tr>
<td></td>
<td>K20, C132, D157,</td>
</tr>
<tr>
<td></td>
<td>K30</td>
</tr>
<tr>
<td>Perales, A.</td>
<td>E196, D7</td>
</tr>
<tr>
<td>Perez-Zoghibi, J.</td>
<td>A60, D103, K3, SABIV</td>
</tr>
<tr>
<td>Perkins, W.</td>
<td>D108</td>
</tr>
<tr>
<td>Perry, T.</td>
<td>D118</td>
</tr>
<tr>
<td>Peters, D.</td>
<td>A74, D124</td>
</tr>
<tr>
<td>Peterson, G.</td>
<td>E21</td>
</tr>
<tr>
<td>Phillips, R.</td>
<td>A117, C142, D200</td>
</tr>
</tbody>
</table>
AUTHOR INDEX

Puttlitz, C. ................................................... F1
Pustavoitau, A. ........................................... A98, C136, E160
Purvis, T. ...................................................... F22
Purdon, P. .................................................... C121, F115
Pulido, L. ..................................................... E189
Prats-Galino, A. ........................................... D184
Prakash, A. ................................................... C90, E88
Puil, E. ............................................................ E18
Pulido, L. ...................................................... E189
Purdon, P. .................................................... C121, F115
Pusztavoi, A. .............................................. A98, C136, E160
Pottitz, C. ................................................... C138, D178, D159, K20, C132, D157, K30
Piao, W. ...................................................... F90
Qiao, W. ...................................................... F90
Qin, W. ...................................................... F21
Qiu, C. ......................................................... E191
Qu, J. .......................................................... D64
Quillinnan, N. ............................................ A172, SAB1, A64
Rabai, F. ...................................................... F114
Rabbani, R. ............................................... F20, K31
Rabinowitz, A. ......................................... E152
Rafferty, M. ................................................. F120
Raghunathan, K. ....................................... A37, C42, D45, D159, K20, C131, E171, C132, D157, K30, C133, E174, C134, F177, C138, D178, C37, F43, C63, F51
Rah, K. ......................................................... F8
Rahman, N. ................................................. F195
Rahman, P. .................................................. F176
Raines, D. ................................................. B153, E24, F16
Rainey, J. .................................................... F49
Raleigh, L. .................................................. A23
Ram, B. ...................................................... C135
Ram, H. ...................................................... E37
Ramamoorthy, J. ..................................... C98
Raman, J. .................................................... A22, D27
Ramanujan, M. .......................................... F127
Ramawamy, P. .......................................... D202
Rammes, G. ............................................... D115
Ranney, D. ............................................... A33, C33
Rao, K. ....................................................... F147, F146
Raposo Corradini, B. ................................. D121, K17
Rappoport, D. .......................................... F130
Rashid, J. ................................................... D130
Rasouli, A. ................................................... D118
Rasouli, M. ............................................... C134, F177, C133, E174
Rathod, P. ................................................... E15
Rattan, N. .................................................. A46, C66
Raub, D. ..................................................... D202
Raval, A. ............................................... A41, C65, D61, A119, C145, F202
Raveh, Y. ................................................... F173
Ray, N. ...................................................... C138, D178
Rebel, A. ............................................... A54, E56, D100, A48, F56, A52, E55
Reddy, A. ................................................... C90, E88
Rehman, M. .............................................. A90, D146, E149
Reich, J. .................................................... C1, D1
Reifman, J. .................................................. D209
Reimer, E. ............................................... D156
Reina, M. ................................................. F190, D183, D184, E190
Reineke, D. ............................................. F105, D113
Rejeski, J. ................................................... E186
Reike, N. .................................................... E35
Remaley, A. ............................................. A107, E177
Remyrand, F. .......................................... D181
Ren, J. ...................................................... A38, F48
Rendon, J. .................................................. E159
Rengel, K. ............................................... A105, C137, D173
Reyes, F. ................................................... D112
Reyes, J. .................................................... E116
Rhee, M. ..................................................... D83
<table>
<thead>
<tr>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ricci, J.</td>
<td>A3, C7, E14</td>
</tr>
<tr>
<td>Richebé, P.</td>
<td>F134</td>
</tr>
<tr>
<td>Richter-Smith, T.</td>
<td>E68</td>
</tr>
<tr>
<td>Ries, M.</td>
<td>C98</td>
</tr>
<tr>
<td>Riess, M.</td>
<td>E201</td>
</tr>
<tr>
<td>Rim, J.</td>
<td>D24, K11</td>
</tr>
<tr>
<td>Ring, L.</td>
<td>D121, K17</td>
</tr>
<tr>
<td>Rios-Zertuche, D.</td>
<td>A44, E63</td>
</tr>
<tr>
<td>Rishel, C.</td>
<td>A106</td>
</tr>
<tr>
<td>Riveros Perez, E.</td>
<td>A77, E121</td>
</tr>
<tr>
<td>Riviello, E.</td>
<td>D67</td>
</tr>
<tr>
<td>Rizzo, D.</td>
<td>E64, E8</td>
</tr>
<tr>
<td>Ro, Y.</td>
<td>E183</td>
</tr>
<tr>
<td>Robbins, K.</td>
<td>C48, D48</td>
</tr>
<tr>
<td>Roberts, D.</td>
<td>B186</td>
</tr>
<tr>
<td>Roberts, S.</td>
<td>E29</td>
</tr>
<tr>
<td>Roberts, K.</td>
<td>A98, C136, E160</td>
</tr>
<tr>
<td>Robertsen, E.</td>
<td>D118</td>
</tr>
<tr>
<td>Robertson, A.</td>
<td>E208</td>
</tr>
<tr>
<td>Robertson, R.</td>
<td>D38</td>
</tr>
<tr>
<td>Robicsek, S.</td>
<td>F114</td>
</tr>
<tr>
<td>Robles, A.</td>
<td>F157</td>
</tr>
<tr>
<td>Robson, S.</td>
<td>A28, D36, K12, SABI</td>
</tr>
<tr>
<td>Rocco, P.</td>
<td>A12, C12, E19</td>
</tr>
<tr>
<td>Rochon, A.</td>
<td>C41, D44</td>
</tr>
<tr>
<td>Rock, P.</td>
<td>A120, E207, E158</td>
</tr>
<tr>
<td>Rocuts, A.</td>
<td>A77, E121</td>
</tr>
<tr>
<td>Rodriguez, F.</td>
<td>F130</td>
</tr>
<tr>
<td>Rodriguez, G.</td>
<td>C102, D97</td>
</tr>
<tr>
<td>Rodriguez, K.</td>
<td>D110</td>
</tr>
<tr>
<td>Rodriguez, V.</td>
<td>A22, D27</td>
</tr>
<tr>
<td>Rodriguez, Y.</td>
<td>D205</td>
</tr>
<tr>
<td>Rodriguez Blanco, Y.</td>
<td>D126</td>
</tr>
<tr>
<td>Rodriguz, R.</td>
<td>A71</td>
</tr>
<tr>
<td>Roeth, C.</td>
<td>E159, E116</td>
</tr>
<tr>
<td>Roffey, P.</td>
<td>D93</td>
</tr>
<tr>
<td>Rogers, B.</td>
<td>D169</td>
</tr>
<tr>
<td>Rollins, M.</td>
<td>F126</td>
</tr>
<tr>
<td>Roque, P.</td>
<td>B193, D151, F28, F30</td>
</tr>
<tr>
<td>Rose, P.</td>
<td>F184</td>
</tr>
<tr>
<td>Rosenberger, D.</td>
<td>C52, D49</td>
</tr>
<tr>
<td>Rosenthal, R.</td>
<td>B162, D34, K1, SABI</td>
</tr>
<tr>
<td>Rosero, E.</td>
<td>E17, D13</td>
</tr>
<tr>
<td>Ross, P.</td>
<td>D149</td>
</tr>
<tr>
<td>Rossi, I.</td>
<td>B188, F180, B187, E145</td>
</tr>
<tr>
<td>Rossmann Beel, E.</td>
<td>C99, E94</td>
</tr>
<tr>
<td>Rothwell, C.</td>
<td>A118, C143, E203</td>
</tr>
<tr>
<td>Rubin, D.</td>
<td>E166</td>
</tr>
<tr>
<td>Rubin, L.</td>
<td>D12</td>
</tr>
<tr>
<td>Rumer, K.</td>
<td>B197, D161, K15</td>
</tr>
<tr>
<td>Ruminski, C.</td>
<td>E43</td>
</tr>
<tr>
<td>Rummel, C.</td>
<td>F105</td>
</tr>
<tr>
<td>Rusanov, A.</td>
<td>A53, F61</td>
</tr>
<tr>
<td>Rusin, C.</td>
<td>A69, C122, D119</td>
</tr>
<tr>
<td>Rutten, M.</td>
<td>D69</td>
</tr>
<tr>
<td>Ryan, C.</td>
<td>F196, D186, D190</td>
</tr>
<tr>
<td>Ryazanova, O.</td>
<td>A55, C64, E59</td>
</tr>
<tr>
<td>Rygielski, S.</td>
<td>A98, C136, E160</td>
</tr>
<tr>
<td>Ryu, J.</td>
<td>F41</td>
</tr>
<tr>
<td>S Adinarayanan, S.</td>
<td>E188</td>
</tr>
<tr>
<td>Saager, L.</td>
<td>E163</td>
</tr>
<tr>
<td>Saari, T.</td>
<td>F17</td>
</tr>
<tr>
<td>Saasouh, W.</td>
<td>E202, D140</td>
</tr>
<tr>
<td>Sabirzhanov, B.</td>
<td>B177</td>
</tr>
<tr>
<td>Sachdeva, A.</td>
<td>E158</td>
</tr>
<tr>
<td>Sadag, M.</td>
<td>B191, F152</td>
</tr>
<tr>
<td>Saeeid, Z.</td>
<td>F187</td>
</tr>
<tr>
<td>Saeez, I.</td>
<td>D112</td>
</tr>
<tr>
<td>Saffray, R.</td>
<td>A23</td>
</tr>
<tr>
<td>Saha, T.</td>
<td>E35</td>
</tr>
<tr>
<td>Sahota, G.</td>
<td>A58, D66</td>
</tr>
<tr>
<td>Sahu, S.</td>
<td>F187</td>
</tr>
<tr>
<td>Sakano, T.</td>
<td>E122, D96</td>
</tr>
<tr>
<td>Sala-Blanch, X.</td>
<td>E190, D183</td>
</tr>
<tr>
<td>Salcedo, L.</td>
<td>A93, F154</td>
</tr>
<tr>
<td>Sale, S.</td>
<td>A19, E26</td>
</tr>
<tr>
<td>Sall, J.</td>
<td>E107</td>
</tr>
<tr>
<td>Salloum, M.</td>
<td>C53</td>
</tr>
<tr>
<td>Salzmann, M.</td>
<td>E201</td>
</tr>
<tr>
<td>Sambuco, B.</td>
<td>C55</td>
</tr>
<tr>
<td>Samen, C.</td>
<td>A45, E65</td>
</tr>
<tr>
<td>Sanchez, M.</td>
<td>A77, E121</td>
</tr>
<tr>
<td>Sandhu, C.</td>
<td>F64</td>
</tr>
<tr>
<td>Sands, L.</td>
<td>C128, D63</td>
</tr>
<tr>
<td>Sanford, J.</td>
<td>E119</td>
</tr>
<tr>
<td>Sankar, A.</td>
<td>E175</td>
</tr>
<tr>
<td>Sano, M.</td>
<td>F113</td>
</tr>
<tr>
<td>Santa Cruz Mercado, L.</td>
<td>C121, F115</td>
</tr>
<tr>
<td>Santell, T.</td>
<td>F134</td>
</tr>
<tr>
<td>Santer, P.</td>
<td>D202</td>
</tr>
<tr>
<td>Santos, R.</td>
<td>C70, F66</td>
</tr>
<tr>
<td>Sapiro, M.</td>
<td>B152</td>
</tr>
<tr>
<td>Sappenfield, J.</td>
<td>A17, C14, D21</td>
</tr>
<tr>
<td>Sarah, G.</td>
<td>F76</td>
</tr>
<tr>
<td>Sarantopoulos, K.</td>
<td>D128, K5</td>
</tr>
<tr>
<td>Saravia Fernandez, E.</td>
<td>A35, C54, E47, A110, C140, F188</td>
</tr>
<tr>
<td>Sasaki Russell, J.</td>
<td>E107</td>
</tr>
<tr>
<td>Sastrow, D.</td>
<td>F68</td>
</tr>
<tr>
<td>Sato, H.</td>
<td>B193, D151, F28, F30, E138</td>
</tr>
<tr>
<td>Sato, M.</td>
<td>F26</td>
</tr>
<tr>
<td>Sato, N.</td>
<td>F5</td>
</tr>
<tr>
<td>Sato, T.</td>
<td>B193, D151, F28, F30</td>
</tr>
<tr>
<td>Sauer, W.</td>
<td>C87</td>
</tr>
<tr>
<td>Savarese, J.</td>
<td>A15, F18</td>
</tr>
<tr>
<td>Savery, P.</td>
<td>C100, F91</td>
</tr>
<tr>
<td>Sawa, T.</td>
<td>A116, E199, D25, A115, D199</td>
</tr>
<tr>
<td>Sax, H.</td>
<td>D118</td>
</tr>
<tr>
<td>Saxena, S.</td>
<td>A67, C120, F109, E36</td>
</tr>
<tr>
<td>Scales, D.</td>
<td>B180, D134</td>
</tr>
<tr>
<td>Scalzo, D.</td>
<td>B167, F57</td>
</tr>
<tr>
<td>Author</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Scheffenbichler, F.</td>
<td>F178</td>
</tr>
<tr>
<td>Scheinin, M.</td>
<td>F17</td>
</tr>
<tr>
<td>Schell, R.</td>
<td>A48, F56</td>
</tr>
<tr>
<td>Schiavi, A.</td>
<td>F142, D141, D193, K23</td>
</tr>
<tr>
<td>Chimene, L.</td>
<td>E206</td>
</tr>
<tr>
<td>Schindler, J.</td>
<td>E87</td>
</tr>
<tr>
<td>Schlapfer, M.</td>
<td>E164</td>
</tr>
<tr>
<td>Schlesinger, J.</td>
<td>A118, C143, E203</td>
</tr>
<tr>
<td>Schmidt, S.</td>
<td>D114</td>
</tr>
<tr>
<td>Schmidt, U.</td>
<td>C48, D48</td>
</tr>
<tr>
<td>Schmiesing, C.</td>
<td>D168</td>
</tr>
<tr>
<td>Schneider, G.</td>
<td>F108, D114, E117, E22, F10</td>
</tr>
<tr>
<td>Schneider, M.</td>
<td>A26, C17</td>
</tr>
<tr>
<td>Schneiderman, J.</td>
<td>B203, C144, D195, K16</td>
</tr>
<tr>
<td>Schnell, E.</td>
<td>B176</td>
</tr>
<tr>
<td>Schnetz, M.</td>
<td>B200, D191, K9, SABI</td>
</tr>
<tr>
<td>Schott, N.</td>
<td>F52</td>
</tr>
<tr>
<td>Schrager, J.</td>
<td>C45, D46</td>
</tr>
<tr>
<td>Schreiber, S.</td>
<td>E35</td>
</tr>
<tr>
<td>Schremp, E.</td>
<td>E140</td>
</tr>
<tr>
<td>Schroeder, J.</td>
<td>E152</td>
</tr>
<tr>
<td>Schuerner, A.</td>
<td>C76, F74, D74, C105, E95, C74, D73, C75, E72</td>
</tr>
<tr>
<td>Schumann, R.</td>
<td>A72, F119, F100, C1, D1, A51, E52</td>
</tr>
<tr>
<td>Schutte, S.</td>
<td>B182, E130</td>
</tr>
<tr>
<td>Schwartz, A.</td>
<td>F113</td>
</tr>
<tr>
<td>Schwartz, B.</td>
<td>F63</td>
</tr>
<tr>
<td>Schwarz, S.</td>
<td>E18</td>
</tr>
<tr>
<td>Scott, J.</td>
<td>C88</td>
</tr>
<tr>
<td>Scribani, M.</td>
<td>E157</td>
</tr>
<tr>
<td>Sculco, P.</td>
<td>F129</td>
</tr>
<tr>
<td>Sculco, T.</td>
<td>F21</td>
</tr>
<tr>
<td>Seal, J.</td>
<td>D70</td>
</tr>
<tr>
<td>Seatter, S.</td>
<td>C57</td>
</tr>
<tr>
<td>Sebastiani, A.</td>
<td>B188, F180, B187, E145</td>
</tr>
<tr>
<td>Seeser, F.</td>
<td>D115</td>
</tr>
<tr>
<td>Seht, D.</td>
<td>E90</td>
</tr>
<tr>
<td>Seidman, P.</td>
<td>F194, E50</td>
</tr>
<tr>
<td>Seifi, A.</td>
<td>A85</td>
</tr>
<tr>
<td>Seleem, S.</td>
<td>F198, E198</td>
</tr>
<tr>
<td>Sendlewski, G.</td>
<td>A50, E51</td>
</tr>
<tr>
<td>Seo, K.</td>
<td>E114</td>
</tr>
<tr>
<td>Sera, V.</td>
<td>A22, D27</td>
</tr>
<tr>
<td>Sergeeva, V.</td>
<td>E10</td>
</tr>
<tr>
<td>Seriki, O.</td>
<td>F92</td>
</tr>
<tr>
<td>Server, A.</td>
<td>F190, D184, E190</td>
</tr>
<tr>
<td>Sethi, S.</td>
<td>C55</td>
</tr>
<tr>
<td>Seubert, C.</td>
<td>F114</td>
</tr>
<tr>
<td>Sevilla, A.</td>
<td>D126</td>
</tr>
<tr>
<td>Sexton, K.</td>
<td>D38</td>
</tr>
<tr>
<td>Sfakianos, J.</td>
<td>F167</td>
</tr>
<tr>
<td>Shah, A.</td>
<td>F197</td>
</tr>
<tr>
<td>Shah, N.</td>
<td>E163, A72, F119</td>
</tr>
<tr>
<td>Shah, S.</td>
<td>B155, D22, K25, SABII</td>
</tr>
<tr>
<td>Shah, U.</td>
<td>F156</td>
</tr>
<tr>
<td>Shahaf, G.</td>
<td>F98, D109, E105</td>
</tr>
<tr>
<td>Shahah, A.</td>
<td>F143</td>
</tr>
<tr>
<td>Shahrokhni, A.</td>
<td>F68</td>
</tr>
<tr>
<td>Shankraw, R.</td>
<td>A68</td>
</tr>
<tr>
<td>Shao, A.</td>
<td>E81</td>
</tr>
<tr>
<td>Shaparin, N.</td>
<td>F135, F132</td>
</tr>
<tr>
<td>Shariat Moharari, R.</td>
<td>D201</td>
</tr>
<tr>
<td>Shariifpour, M.</td>
<td>A16, F19</td>
</tr>
<tr>
<td>Sharma, A.</td>
<td>D165</td>
</tr>
<tr>
<td>Sharma, J.</td>
<td>C101, F93</td>
</tr>
<tr>
<td>Shatz, V.</td>
<td>F173</td>
</tr>
<tr>
<td>Shaw, J.</td>
<td>F72, F71</td>
</tr>
<tr>
<td>Shaw, K.</td>
<td>E176</td>
</tr>
<tr>
<td>Shaw, L.</td>
<td>A59, C115, D104, K26, SABIV, Y</td>
</tr>
<tr>
<td>Shayanfesh, D.</td>
<td>F178, D163</td>
</tr>
<tr>
<td>Sheehan, P.</td>
<td>B161, C22, D32, K7, SABI</td>
</tr>
<tr>
<td>Sheinbein, D.</td>
<td>A83, F138</td>
</tr>
<tr>
<td>Shelley, K.</td>
<td>B202, C141, D198</td>
</tr>
<tr>
<td>Shen, L.</td>
<td>C43</td>
</tr>
<tr>
<td>Shen, S.</td>
<td>A80</td>
</tr>
<tr>
<td>Sherafati, A.</td>
<td>E106</td>
</tr>
<tr>
<td>Sherman, J.</td>
<td>C24, F37</td>
</tr>
<tr>
<td>Shertzer, A.</td>
<td>E122</td>
</tr>
<tr>
<td>Shi, D.</td>
<td>D115</td>
</tr>
<tr>
<td>Shi, X.</td>
<td>A78, D127</td>
</tr>
<tr>
<td>Shi, Y.</td>
<td>A36, C34, D42</td>
</tr>
<tr>
<td>Shilling, A.</td>
<td>E15</td>
</tr>
<tr>
<td>Shimazaki, A.</td>
<td>F169</td>
</tr>
<tr>
<td>Shimizu, K.</td>
<td>D90, D26, D47</td>
</tr>
<tr>
<td>Shimizu, M.</td>
<td>A116, E199</td>
</tr>
<tr>
<td>Shin, D.</td>
<td>F70</td>
</tr>
<tr>
<td>Shin, W.</td>
<td>D142, K29</td>
</tr>
<tr>
<td>Shinohara, M.</td>
<td>A71</td>
</tr>
<tr>
<td>Shnaydman, I.</td>
<td>D74</td>
</tr>
<tr>
<td>Shoni, M.</td>
<td>C102, D97</td>
</tr>
<tr>
<td>Shook, S.</td>
<td>C126, E134</td>
</tr>
<tr>
<td>Shortal, B.</td>
<td>E113, E102</td>
</tr>
<tr>
<td>Shotwell, M.</td>
<td>A36, C34, D42, F29, F38</td>
</tr>
<tr>
<td>Shum-Tim, D.</td>
<td>F30</td>
</tr>
<tr>
<td>Shureiqi, I.</td>
<td>B196, D160, K14</td>
</tr>
<tr>
<td>Siddiqui, A.</td>
<td>C56</td>
</tr>
<tr>
<td>Siddiqui, N.</td>
<td>A3, C7, E14</td>
</tr>
<tr>
<td>Sieber, F.</td>
<td>A57, D65</td>
</tr>
<tr>
<td>Siegmann, M.</td>
<td>A65, F106, D116</td>
</tr>
<tr>
<td>Sigurdsson, G.</td>
<td>C134, F177</td>
</tr>
<tr>
<td>Sigurdsson, M.</td>
<td>C134, F177</td>
</tr>
<tr>
<td>Silva, P.</td>
<td>A12, C12, E19</td>
</tr>
<tr>
<td>Silva Dias Santos Patrocinio, M.</td>
<td>D163</td>
</tr>
<tr>
<td>Sim, A.</td>
<td>F167</td>
</tr>
<tr>
<td>Sim, M.</td>
<td>B183, C125, D136, K6, SABII, Y</td>
</tr>
<tr>
<td>Sima, A.</td>
<td>E173</td>
</tr>
<tr>
<td>Simon, G.</td>
<td>F124</td>
</tr>
<tr>
<td>Sindwani, G.</td>
<td>F187</td>
</tr>
<tr>
<td>Singer, O.</td>
<td>F204</td>
</tr>
<tr>
<td>Singh, H.</td>
<td>E96</td>
</tr>
<tr>
<td>Singh, M.</td>
<td>F196, E141, F195</td>
</tr>
</tbody>
</table>
AUTHOR INDEX

Singh, P. .......................................... A110, C140, F188
Singh, S. ........................................ C80, D81
Singhal, S. ...................................... D182
Singla, P. ....................................... D117
Sinha, S. ......................................... D153
Sinskey, J. ........................................ F126
Siow, Y. .............................................. E155
Sirianni, J. ...................................... E67
Siringaddi, K. ................................... A98, C136, E160
Sirohiya, P. ...................................... A8, D10
Sitterley, K. ...................................... A43, C69, D62
Sivan-Hofman, R. .......................... D109
Skojec, A. ......................................... E43
Skroracki, R. ...................................... E159
Slade, E. ............................................. C118, F103
Slagle, J. ........................................... B186
Sleigh, J. .......................................... E117
Sloan, P. ........................................... F136, D98, E131
Slowey, C. ....................................... A18, E25, E30
Smith, B. ........................................... A69, C122, D119
Smith, C. ......................................... F190, D183, D184,
 .................................................. D185, E189, E190, F189
Smith, D. ......................................... A107, E177
Smith, J. ........................................... D118
Smith, L. ........................................... A107, E177
Smith, P. .......................................... B199, D188, E43
Smith, S. .......................................... D71, D70
Smith, W. ......................................... C111
Smollin, C. ....................................... C59
Snieceinski, R. .................................. D209
Snow, A. ........................................... A2, C5, F6
Snyder, D. ........................................ F54
So Hyun, K. ...................................... F175
Soares, A. ....................................... D165
Sobol, J. ........................................... C89, D88, C103, C104
Sohn, J. ........................................... A97, D152
Solorio, F. ......................................... E97
Solt, K. .............................................. A65, F106
Song, H. ........................................... A22, D27, F41
Song, I. .............................................. D142, K29
Sonnier, D. ....................................... D70
Sonino, C. ......................................... E12
Souligny, W. .................................... C41, D44
Souryal, A. ....................................... A85
Spangler, S. ..................................... E43
Sparling, J. ...................................... A86, E142
Spector, A. ....................................... B199, D188
Spelde, A. ........................................ A58, D66
Spence, E. ....................................... D174
Splika, J. .......................................... F64
Sprung, J. ....................................... A111, E192
Sra, J. ............................................... F94
Stacey, D. ........................................ F45
Stafford, R. ..................................... B201, D194, K21, SABII
Stamas, N. ...................................... C1, D1
Stanberry, L. ................................... C57
Stanley, N. ...................................... B197 D161 K15
Stansfield, J. .................................... E173
Stefan, M. ....................................... C138, D178, C131, E171
Steinshouer, J. ................................ A83, F138
Stentz, M. ....................................... C62, D52
Stevens, J. ....................................... F168
Stevens, T. ....................................... B164
Stoica, B. ......................................... B177
Stoicea, N. ....................................... F131, D169, E194
Stoll, D. ........................................... E67
Stollings, J. ....................................... F38
Stoltenberg, E. ................................ C57
Stöhr, E. .......................................... D25
Straker, T. ........................................ A87, E143
Stricker, P. ....................................... E149
Stromberg, A. .................................. C117, E112
Strumwasser, A. .............................. C93, E45
Su, E. ............................................... F21
Su, L. ............................................... C117, E112
Subramaniam, B. ......................... F31
Subramaniam, R. ............................. F141
Suen, A. ........................................... A121, E209
Suen, C. ........................................... D186
Sugeir, S. ......................................... D86
Suginaka, A. .................................... C58
Sugita, S. ........................................ A29, D35, K2, SABIII, D33, K8
Sullivan, M. ...................................... B186
Sultana, R. ....................................... E155
Sun, E. ............................................. A106
Sun, F. .............................................. C59
Sun, L. ........................................... B191, F152, E137, E148, A89, D144
Sun, M. ........................................... B190, F151
Sun, S. ............................................. D118
Sunaga, H. ....................................... A15, F18
Suresh, P. ....................................... B166
Sutherland, T. ................................. D67
Svidor, P. ......................................... D7
Swanson, J. ..................................... C68
Swanson, M. ..................................... E162
Sweitzer, B. ...................................... A20, E28
Swygert, K. ..................................... A105, C137, D173
Syed, M. ......................................... C71
Szalai, C. ......................................... F55
Szlam, F. .......................................... D209
Szoke, D. .......................................... F32
Tabatabai, S. ................................... C128, D63
Tabayoyong, L. ......................... A86, E142
Taber, D. .......................................... E67
Taha, S. ........................................... D8
Takano, Y. ........................................ D47
Takatori, M. .................................... F89, D101
Takatsuji, S. ..................................... F145
Takayama, H. ................................... D25
Talmor, D. ........................................ D67
Tanaka, K. ....................................... E205
Tanaka, P. ........................................ F64
AUTHOR INDEX

Taneja, R. ............................................................ F32, F113
Tang, C. ......................................................... C128, D63
Tang, J. .............................................................. D118
Tang, Z. .............................................................. D118
Tani, M. .............................................................. D90
Tanner, J. ..................................................... E109, D105, K28, D110, D120
Tanuma, J. ........................................................ E114
Tanwar, S. .................................................... D153
Tanzola, R. ....................................................... E35
Tarshis, J. .......................................................... F65
Tarwade, P. ...................................................... C135
Tauchi, M. .......................................................... E111
Tavakol, M. .................................................... A102, F172
Tawfik, V. ........................................................... F179
Taylor, D. ...................................................... E43, D117
Taylor, J. .............................................................. D38
Teegarden, B. .................................................... C50
Teen, M. ............................................................. F158
Teja, B. ............................................................. A39, C60, E48, C20
Terao, Y. .............................................................. F169
Terrando, N. ................................................ B175, A62, E108, A71
Terwindt, L. ..................................................... E204
Tewfik, G. ............................................................. E196
Thai, C. ............................................................... F182
Than, K. ............................................................ D149
Thang, L. ........................................................... D135
Tharp, W. .......................................................... F162, F120
Theroux, M. .................................................... A91, D147, F156
Thiele, E. ............................................................. E195
Thilen, S. ............................................................. E23
Thomas, S. ....................................................... F102, K32
Thompson, A. ................................................ A97, D152, F121
Thordarson, K. ................................................ D118
Thorpe, K. .......................................................... E175
Thuita, L. ............................................................. A19, E26
Ti, L. ................................................................. B183, C125, D136, K6, SABI1, Y, F33
Tian, L. ............................................................... B181
Tian, X. .............................................................. A34, F47, D50
Tibayan, F. ........................................................ A22, D27
Tibbetts, R. ........................................................ D138
Tien, M. ............................................................. A24
Tili, E. ................................................................. B157
Tiwari, D. ............................................................ C106, E98
Tiwari, T. ............................................................. E3, E11
To, L. ................................................................. D99
Toaz, E. .............................................................. F146
Toda, Y. .......................................................... D133
Todd, M. ............................................................. F1
Togashi, K. ....................................................... F201, K33
Togioka, B. ..................................................... B198, D175
Tokumine, J. ..................................................... E49
Tomlinson, G. ................................................... E141
Tomotsuka, N. .................................................. D47
Tonev, D. ............................................................. F143
Tordecilla, H. ...................................................... E4
Torres, A. ............................................................. F81
Torres, U. ............................................................ C88
Townsend, D. .................................................. A87, E143
Tran, A. ............................................................ F72
Tran, S. ............................................................. E114
Tran, T. ............................................................. C93, D89, D72, C32
Traynelis, V. ..................................................... F1
Tregear, H. ........................................................ C61
Treggiari, M. .................................................. B198, D175, E23, A22, D27
Tripathi, M. ....................................................... F203, E178
Tripathi, N. ....................................................... F203, B197, D161, K15
Tsai, A. ............................................................... C25, E40, E91, C1, D1
Tsai, P. ............................................................... E66
Tsang, S. ......................................................... E43, D117
Tse, J. F8 .......................................................... D75, E100, E4, E99
Tseng, A. ............................................................. F21
Tsuchiya, Y. ....................................................... E12
Tudor, A. ............................................................ D83
Tung, A. ......................................................... B171, E60, A42 D60
Tulpler, R. .......................................................... D71
Turan, A. ........................................................... D140
Turnbull, J. .......................................................... C109
Turnbull, Z. ........................................................ E96
Turner, N. ............................................................ E116
Tuteja, A. ............................................................ F195
Twagirumugabe, T. ........................................... D67
Tyagi, A. ............................................................ F127, E120
Uchida, Y. .......................................................... A67, C120, F109
Udani, A. ............................................................. F64
Udeshi, M. .......................................................... E33, D30
Uehara, K. .......................................................... F89, D101
Ueshima, H. .......................................................... F192
Ullah, A. ............................................................. F95
Ullman, D. ........................................................ E157
Umar, S. ............................................................ A21, D23, K24, SABI3
Umasankar, Y. ................................................... E200
Unger, R. .......................................................... A76 D125
Upadhayay, A. ................................................... D138
Uribe, A. ............................................................ F39, E194, F131
Urman, R. ........................................................ F59, F160
Uthaman, D. ........................................................ F3
Uusalo, P. ............................................................ F17
Uyei, J. ............................................................... A119, C145, F202
Uz, Z. ................................................................. D69
Valk, B. ............................................................. B153, E24
van den Boom, W. ............................................. C63, F51
Van Dort, C. .................................................... A65, F106, D116
Van Drunen, L. ................................................ A52, E55
Van Gompel, J. .................................................. D108
van Gulik, T. .................................................... D69
van Heusden, K. ............................................... D192, K22
van Klei, W. ..................................................... D177
van Waes, J. ..................................................... D177
Vanderveen, M. ................................................... E100
VanEenenaam, D. ............................................. F140
Vannucci, A. .................................................. B188, F180, B187, E145
Vanston, S. ...................................................... A105, C137, D173
Vargas, A..................................................C111, D176
Varner, C..................................................F64
Vascak, M..................................................E173
Vasilopoulos, T.........................................C70, F66
Vasudevan, B.............................................C58
Vatovec, C....................................................E64
Vavilala, M..................................................A37, C42, D45
Vecino, S.....................................................E96
Veelo, D..............................................E204, D69
Venegas, M.................................................D112
Vera-Arroyo, A..........................................C76, F74, D74, C75, E72
Verfuether, L...............................................A26, C17
Verma, A.....................................................C56
VERMA, S....................................................E3
Vernooij, L.................................................D177
Victory, J....................................................E157
Vidal Melo, M..............................................A111, E192
Vigil Gonzalez, F..........................................F116
Villalpando, L.............................................F112
Visagie, M..................................................A18, E25, E30, E31, F22
Vitter, J........................................................E90
Vlassakov, K..............................................A108, E180
Vodovozt, Y...............................................E206
Vogler, L.....................................................E35
Vogt, K.......................................................B200, D191, K9, SABI, F95
Vogus, T.....................................................E140
Vose, S.......................................................E190
Vu, E..........................................................A69, C122, D119
Vu, K..........................................................C107, E101
Vu, T.........................................................C114, D51
Vujaskovic, L.............................................F137, E125
Wagener, B.................................................B164, F46
Wagener, G..................................................E69, E68
Wagner, L....................................................A11
Wahr, J.........................................................C44
Wajda, M....................................................F67, D57
Walco, J.......................................................C85, E86
Walian, A.....................................................E11
Walkey, A...................................................A39, C60, E48
Wall, M.......................................................B190, F151
Wallace, D....................................................E13
Walsh, B.....................................................A2 C5 F6
Walsh, S......................................................F136
Wanderer, J...............................................D197
Wang, A.....................................................A95, C11, F9
Wang, C.....................................................C59
Wang, D......................................................E159, B195, D164
Wang, E.......................................................F34
Wang, L.......................................................A95, C11, F9
Wang, N.....................................................A57, D65
Wang, S......................................................A121, E209
Wang, T.......................................................E43
Wang, W.....................................................E113, D37
Wang, Y.....................................................C128, D63
Ward, A......................................................B195, D164
Ward, C......................................................C94, E92
Wardhan, R..............................................F190, D183
Warner, M..................................................C15
Wasilczuk, A.............................................B154, F102, K32, A70, E118
Wazir, A......................................................B171, E60, A42, D60
Weaver, A....................................................E37
Weaver, T.....................................................F184
Webber, A...................................................E179
Webster, F....................................................F60
Whee, C......................................................F194
Weinberg, R.................................................C21
Weingarten, T.............................................A111, E192
Weinger, M..................................................B186
Weinhold, K.................................................A59, C115, D104, K26, SABIV, Y
Weinrich, J...................................................D106, K27
Weis, M......................................................A16, F19
Weisheit, C..................................................A26, C17
Weiss, J.......................................................C108, F96
Weitzel, N.................................................B163, E42, A101, F164, A27
Welch, T......................................................F53
Weller, M.....................................................F90
Weller, R....................................................D126
Wesch, N.....................................................E54
West, N.......................................................D192, K22
Westbrook, G..............................................B176
Westover, M...............................................E176
Wetsel, W....................................................A71
Whalen, F.....................................................C73
Whitaker, E.................................................A94, D154, SABIV
White, J.....................................................A17, C14, D21, F79
White, P.......................................................C70, F66
White, R......................................................C21
Whitehurst, S.............................................B200, D191, K9, SABI
Whitener, S..................................................F75
Whitlock, E..................................................A56
Whitman, J...................................................C59
Whitson, H..................................................A59, C115, D104, K26, SABIV, Y, F97
Whittle, J.....................................................C132, D157, K30, D159, K20
Whyte, S.....................................................E154
Wiedel, C....................................................D117
Wiegellmann, J...........................................F204
Wiepking, M.............................................C62, D52, C23, F36
Wieser, J......................................................F146
Wiggins, M..................................................E109, D120
Wijeyasurya, D..........................................B180, D134, D177, E165, E175
Wildes, T.....................................................D165
Wilkey, B.....................................................A27
Wilkinson, I.................................................B178, E124
Wilkinson, J..................................................C39, E45
Williams, A.................................................D171
Williams, B.................................................A40, F50
Williams, D..................................................C57
Williams, R.................................................A94, D154, SABIV
Wilson, A.....................................................A7
Wilson, M....................................................D116
Winans, D..................................................A120, E207
Winnick, S..................................................E191
<table>
<thead>
<tr>
<th>Name</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wintermeyer, T</td>
<td>A18</td>
</tr>
<tr>
<td>Winters, B</td>
<td>E25</td>
</tr>
<tr>
<td>Wirak, G</td>
<td>E103</td>
</tr>
<tr>
<td>Wischmeyer, P</td>
<td>A61, C116, F101</td>
</tr>
<tr>
<td>Withers, B</td>
<td>D100</td>
</tr>
<tr>
<td>Woldoff, M</td>
<td>D104, K26, SABIV, Y, F97</td>
</tr>
<tr>
<td>Wolk, R</td>
<td>E81, E2</td>
</tr>
<tr>
<td>Woll, K</td>
<td>B151, E20</td>
</tr>
<tr>
<td>Wollenberg, M</td>
<td>C97</td>
</tr>
<tr>
<td>Wong, C</td>
<td>F72</td>
</tr>
<tr>
<td>Wong, J</td>
<td>A114</td>
</tr>
<tr>
<td>Wong, S</td>
<td>C109</td>
</tr>
<tr>
<td>Wong, V</td>
<td>D56</td>
</tr>
<tr>
<td>Wong, Z</td>
<td>F171</td>
</tr>
<tr>
<td>Wood, C</td>
<td>A117, C142, D200</td>
</tr>
<tr>
<td>Wood, T</td>
<td>C52, D49</td>
</tr>
<tr>
<td>Worms, K</td>
<td>F98</td>
</tr>
<tr>
<td>Worrall, E</td>
<td>E123</td>
</tr>
<tr>
<td>Wright, A</td>
<td>D122</td>
</tr>
<tr>
<td>Wu, A</td>
<td>A114</td>
</tr>
<tr>
<td>Wu, F</td>
<td>B201, D194, K21, SABII</td>
</tr>
<tr>
<td>Wu, H</td>
<td>C63, F51</td>
</tr>
<tr>
<td>Wu, I</td>
<td>B159, C19, E34, D25</td>
</tr>
<tr>
<td>Wu, M</td>
<td>C59, C114</td>
</tr>
<tr>
<td>Wu, R</td>
<td>B192, F153</td>
</tr>
<tr>
<td>Wu, S</td>
<td>A26, C17</td>
</tr>
<tr>
<td>Wulff, H</td>
<td>A67, C120, F109</td>
</tr>
<tr>
<td>Wunsch, H</td>
<td>B180, D134, A39, C60, E48</td>
</tr>
<tr>
<td>Wykes, L</td>
<td>B193, D151, F30, D208</td>
</tr>
<tr>
<td>Xu, X</td>
<td>F178, D163</td>
</tr>
<tr>
<td>Yagel, S</td>
<td>A76, D125</td>
</tr>
<tr>
<td>Yamane, D</td>
<td>C55</td>
</tr>
<tr>
<td>Yamazaki, M</td>
<td>E114</td>
</tr>
<tr>
<td>Yan, R</td>
<td>C138, D178</td>
</tr>
<tr>
<td>Yan, Y</td>
<td>E104</td>
</tr>
<tr>
<td>Yanez, N</td>
<td>B198, D175</td>
</tr>
<tr>
<td>Yang, H</td>
<td>E8, A120, E207</td>
</tr>
<tr>
<td>Yang, S</td>
<td>D118</td>
</tr>
<tr>
<td>Yao, A</td>
<td>B178, E124</td>
</tr>
<tr>
<td>Yaport, M</td>
<td>F158</td>
</tr>
<tr>
<td>Yarnoff, K</td>
<td>C13, D19, K4, Y</td>
</tr>
<tr>
<td>Yassin, A</td>
<td>F198, E198</td>
</tr>
<tr>
<td>Ye, X</td>
<td>A3, C7, E14</td>
</tr>
<tr>
<td>Ye, Y</td>
<td>F193, D179</td>
</tr>
<tr>
<td>Yen, A</td>
<td>C89, D88, C111, C84, F84</td>
</tr>
<tr>
<td>Yermal, S</td>
<td>E97</td>
</tr>
<tr>
<td>Yeung, B</td>
<td>F137, E125</td>
</tr>
<tr>
<td>Yhim, H</td>
<td>F205, D203</td>
</tr>
<tr>
<td>Yim, M</td>
<td>F159</td>
</tr>
<tr>
<td>Yim, P</td>
<td>A114, C81, F82</td>
</tr>
<tr>
<td>Yin, S</td>
<td>B193, D151</td>
</tr>
<tr>
<td>Yocum, G</td>
<td>A112, F83, A1</td>
</tr>
<tr>
<td>Yoder, A</td>
<td>C48, D48</td>
</tr>
<tr>
<td>Yokokawa, S</td>
<td>F26, E83</td>
</tr>
<tr>
<td>Yoon, S</td>
<td>F205, D203</td>
</tr>
<tr>
<td>Yoosefi, A</td>
<td>E5</td>
</tr>
<tr>
<td>Yorozu, T</td>
<td>E49</td>
</tr>
<tr>
<td>Yoshida, T</td>
<td>D101</td>
</tr>
<tr>
<td>You, Z</td>
<td>A80</td>
</tr>
<tr>
<td>Young, A</td>
<td>C63, F51</td>
</tr>
<tr>
<td>Yozawitz, E</td>
<td>A94, D154, SABIV</td>
</tr>
<tr>
<td>Yu, J</td>
<td>D142, K29</td>
</tr>
<tr>
<td>Yuan, I</td>
<td>D155</td>
</tr>
<tr>
<td>Yuan, X</td>
<td>D37</td>
</tr>
<tr>
<td>Yumul, R</td>
<td>F64, D118</td>
</tr>
<tr>
<td>Zacharias, M</td>
<td>C103</td>
</tr>
<tr>
<td>Zachs, D</td>
<td>D116</td>
</tr>
<tr>
<td>Zack-Guasp, R</td>
<td>C76, F74, D74, C112, C74, D73, C75, E72</td>
</tr>
<tr>
<td>Zahed, F</td>
<td>A51, E52</td>
</tr>
<tr>
<td>Zaimi, I</td>
<td>A51, E52, C25, E40</td>
</tr>
<tr>
<td>Zaitsev, A</td>
<td>E12</td>
</tr>
<tr>
<td>Zamora, L</td>
<td>A90, D146, E149</td>
</tr>
<tr>
<td>Zanath, E</td>
<td>C113</td>
</tr>
<tr>
<td>Zanze, C</td>
<td>F171, D84, E162</td>
</tr>
<tr>
<td>Zarbock, A</td>
<td>C39, E45</td>
</tr>
<tr>
<td>Zaretksy, M</td>
<td>A117, C142, D200</td>
</tr>
<tr>
<td>Zasimovich, Y.</td>
<td>E181</td>
</tr>
<tr>
<td>Zau, M</td>
<td>D53</td>
</tr>
<tr>
<td>Zeballos, J</td>
<td>A108, E180</td>
</tr>
<tr>
<td>Zeigler, L</td>
<td>A45, E65</td>
</tr>
<tr>
<td>Zelisko, M</td>
<td>E150</td>
</tr>
<tr>
<td>Zeltman, M</td>
<td>A73, C127, F122, C110, D102</td>
</tr>
<tr>
<td>Zerler, B</td>
<td>A14, F15</td>
</tr>
<tr>
<td>Zhang, B</td>
<td>D155</td>
</tr>
<tr>
<td>Zhang, C</td>
<td>E205, D204</td>
</tr>
<tr>
<td>Zhang, E</td>
<td>A65, F106</td>
</tr>
<tr>
<td>Zhang, M</td>
<td>B184, E135</td>
</tr>
<tr>
<td>Zhang, W</td>
<td>A68, F117</td>
</tr>
<tr>
<td>Zhang, X</td>
<td>A29, D35, K2, SABII, D121, K17, D33, K8, D126</td>
</tr>
<tr>
<td>Zhang, Y</td>
<td>A113</td>
</tr>
<tr>
<td>Zhang, Z</td>
<td>B175, A71, E38</td>
</tr>
<tr>
<td>Zhou, J</td>
<td>F97</td>
</tr>
<tr>
<td>Zhou, L</td>
<td>D33, K8</td>
</tr>
<tr>
<td>Zhou, X</td>
<td>A80</td>
</tr>
<tr>
<td>Zhou, Y</td>
<td>A81, C123, D129</td>
</tr>
<tr>
<td>Zhu, K</td>
<td>D115</td>
</tr>
<tr>
<td>Ziethen, T</td>
<td>D70</td>
</tr>
<tr>
<td>Ziser, A</td>
<td>F98</td>
</tr>
<tr>
<td>Zogg, C</td>
<td>B168</td>
</tr>
<tr>
<td>Zolnowski, I.</td>
<td>F67</td>
</tr>
<tr>
<td>Zorensky, F</td>
<td>F99</td>
</tr>
<tr>
<td>Zorn, G</td>
<td>C61</td>
</tr>
<tr>
<td>Zou, L</td>
<td>B165, A121, E209, A40, F50</td>
</tr>
<tr>
<td>Zhoumenou, E</td>
<td>E62</td>
</tr>
<tr>
<td>Zuleeta-alarcon, A</td>
<td>E116</td>
</tr>
<tr>
<td>Zvara, J</td>
<td>A24</td>
</tr>
<tr>
<td>Zylberberg, J</td>
<td>A25, F25</td>
</tr>
</tbody>
</table>
In an article published by the Journal of Anesthesia History, A&A ranked highest for promptness of reaction to new developments in anesthesia of the six leading anesthesia journals.

Read more: bit.ly/AnesHistory

Did you know?

As an exclusive benefit of IARS membership, Anesthesia & Analgesia ranks #7 within anesthesiology with a 3.463 Impact Factor*.

* 2017 Journal Citation Reports (Clarivate Analytics, 2018)
LEADERSHIP
AUA EDUCATIONAL ADVISORY BOARD

Keith H. Baker, MD, PhD
Chair
Massachusetts General Hospital

Thomas A. Anderson, MD, PhD
Harvard Medical School & Massachusetts General Hospital

Amanda Burden, MD
Cooper Medical School of Rowan University; Cooper University Hospital

Robert R. Gaiser, MD
University of Kentucky Health Care

Barbara G. Jericho, MD, DABPM, FASA
University of Illinois Hospital and Health Sciences System

Cynthia A. Lien, MD
Froedtert & Medical College of Wisconsin, Specialty Clinics

Susan Marie Martinelli, MD
University of North Carolina School of Medicine

Matthew D. McEvoy, MD
Vanderbilt University Medical Center

Edward C. Nemergut, MD
University of Virginia Health Systems

Christine Park, MD
Northwestern University

May Pian-Smith, MD
Harvard Medical School; Massachusetts General Hospital

Mark Stafford-Smith, MD
Duke University Medical Center

Manuel C. Vallejo, MD, DMD
West Virginia University
AUA SCIENTIFIC
ADVISORY BOARD

Ines Koerner, MD, PhD
Chair
Oregon Health & Science University

Michael Andreae, MD
Penn State Medical Center

Helene Beneviste, MD, PhD
Yale School of Medicine

Lucy Chen, MD
Harvard Medical School

Holger K. Eltzschig, MD, PhD
McGovern Medical School,
The University of Texas Health Center at Houston

George Gallos, MD
Columbia University

Paul Garcia, MD, PhD
Emory University

Tomoki Hashimoto, MD
University of California, San Francisco

Meghan Brooks Lane-Fall, MD, MSHP
Perelman School of Medicine, University of Pennsylvania

Jae-Woo Lee, MD
University of California, San Francisco

Richard Levy, MD
Columbia University

Jamie Privratsky, MD, PhD
Duke University

Christine N. Sang, MD, MPH
Harvard Medical School

Edward R. Sherwood, MD, PhD
Vanderbilt University Medical Center

Niccolò Terrando, BSc (hons), DIC, PhD
Duke University Medical Center
SOCCA OFFICERS

Daniel R. Brown, MD, PhD, FCCM
President
Mayo Clinic

Miguel A. Cobas, MD, FCCM
President-Elect
University of Miami

Michael H. Wall, MD, FCCM
Treasurer
University of Minnesota

Mark E. Nunnally, MD, FCCM
Secretary
New York University Langone Medical Center

Avery Tung, MD, FCCM
Immediate Past President
University of Chicago

James M. Blum, MD, FCCM
Director
Emory University Hospital

Adam Evans, MD, MBA, FCCM
Director
Anesthesia Associates of Morristown

Michael Haney, MD, PhD
Director
Umea University

Benjamin A. Kohl, MD, FCCM
Director
Thomas Jefferson University

Linda Liu, MD
Director
University of California

Stephen D. Surgenor, MD
Director
Dartmouth Hitchcock Medical Center

S. Patrick Bender, MD
ASA Delegate (Ex-Officio)
University of Vermont Medical Center

Patricia M. Murphy, MD
Canadian Representative (Ex-Officio)

SOCCA COMMITTEE ON EDUCATION

Sheela Pai Cole, MD
Chair
Stanford University School of Medicine

Peter Von Homeyer, MD, FASE
Vice Chair
University of Washington Medicine

Kunal Karamchandani, MD
Penn State Health Hershey Medical Center

Ashish Khanna, MD, FCCP
Wake Forest University School of Medicine

SOCCA COMMITTEE ON RESEARCH

James M. Blum, MD
Emory University Hospital

Adam S. Evans, MD
Morristown Medical Center

Kevin W. Hatton, MD
University of Kentucky

Peter Rock, MD, MBA
University of Maryland School of Medicine

Robert D. Stevens, MD
Chair
The Johns Hopkins University School of Medicine

Hannah Wunsch, MD
University of Toronto Faculty of Medicine
IARS BOARD OF TRUSTEES

Colleen G. Koch, MD, MS, MBA  
Chair  
The Johns Hopkins University School of Medicine

John F. Butterworth, IV, MD  
Past Chair  
Virginia Commonwealth University

Emery Brown, MD, PhD  
Treasurer  
Massachusetts Institute of Technology

Makoto Ozaki, MD, PhD  
Secretary  
Tokyo Women's Medical University

Santhanam Suresh, MD  
Journal Liaison  
Lurie Children's Hospital

Michael S. Avidan, MBBCh  
Washington University in St Louis

Davy C.H. Cheng, MD  
University Hospital - LHSC

Alex S. Evers, MD  
Washington University in St Louis

Keith A. “Tony” Jones, MD  
University of Alabama Medical Center

Sachin Kheterpal, MD, MBA  
University of Michigan

George Mashour, MD, PhD  
University of Michigan

Laura E. Niklason, MD, PhD  
Yale University

Beverley A. Orser, MD, PhD  
University of Toronto

Hiroshi Otake, MD, MBA, PhD  
Showa University Hospital

Makoto Ozaki, MD, PhD  
Tokyo Women's Medical University

Santhanam Suresh, MD  
Lurie Children's Hospital

IARS ANNUAL MEETING OVERSIGHT COMMITTEE

Michael S. Avidan, MBBCh  
Washington University in St Louis

Davy C.H. Cheng, MD  
University Hospital - LHSC

Keith (Tony) A. Jones, MD  
University of Alabama Medical Center

Sachin Kheterpal, MD, MBA  
University of Michigan

Beverley A. Orser, MD, PhD  
University of Toronto

Hiroshi Otake, MD, MBA, PhD  
Showa University Hospital

Makoto Ozaki, MD, PhD  
Tokyo Women's Medical University

Santhanam Suresh, MD  
Lurie Children's Hospital

IARS SESSION PROPOSAL REVIEW COMMITTEE

Fatima Ahmad, MD  
Loyola Ambulatory Surgical Center Oakbrook Terrace

Bret Alvis, MD  
Vanderbilt University Medical Center

Ryan Anderson, MD, PhD  
Oregon Health and Science University

Michael Aziz, MD  
Oregon Health and Science University

Angela Bader, MD, MPH  
Brigham and Women's Hospital

Keith Baker, MD, PhD  
Massachusetts General Hospital

Kumar Belani, MD  
University of Minnesota
Miles Berger, MD, PhD  
Duke University Medical Center

Lauren Berkow, MD  
University of Florida

Keith Candiotti, MD  
University of Miami Health System

Maxime Cannesson, MD, PhD  
David Geffen School of Medicine at UCLA

Swapna Chaudhuri, MD  
Texas Tech University Health Sciences Center

Ki Jinn Chin, MBBS (Hons), MMed, FRCPC  
University of Toronto

Angus Christie, MD  
Spectrum Healthcare Partners

Nina Deutsch, MD  
Children's National

Dawn Dillman, MD  
Oregon Health and Science University

Anthony Doufas, MD, PhD  
Stanford University School of Medicine

David Drover, MD  
Stanford University

Nabil Elkassabany, MD  
Perelman School of Medicine, University of Pennsylvania

Miko Enomoto, MD  
Oregon Health and Science University

Lorraine Foley, MD, MBA  
Winchester Hospital

Julie Freed, MD, PhD  
Medical College of Wisconsin

Robert Freundlich, MD, MS  
Vanderbilt University Medical Center

Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA  
Stony Brook University School of Medicine

Irina Gasanova, MD  
UT Southwestern Medical Center

Susan Goobie, MD  
Harvard Medical School

Christina Hayhurst, MD  
Vanderbilt University

Thomas Hemmerling, MD, MSc, DEAA  
McGill University

Christopher Patrick Henson, DO  
Vanderbilt University

Girish Joshi, MB BS, MD, FFARCSI  
UT Southwestern Medical Center

Max Kelz, MD, PhD  
Perelman School of Medicine, University of Pennsylvania

Ashish Khanna, MD, FCCP, FCCM  
Cleveland Clinic Foundation

Adam King, MD  
Vanderbilt University Medical Center

Adam Kingeter, MD  
Vanderbilt University

Ines Koerner, MD, PhD  
Oregon Health & Science University

Kirk Lalwani, MD, FRCA, MCR  
Oregon Health and Science University

Ruth Landau, MD  
Columbia University

Meghan Lane-Fall, MD, MSHP  
Perelman School of Medicine / Leonard Davis Institute for Health Economics, University of Pennsylvania

Lisa Rae Leffert, MD  
Harvard Medical School; Massachusetts General Hospital

Yafen Liang, MD  
Vanderbilt University Medical Center

Linda Liu, MD  
University of California, San Francisco

Amy Lu MD, PhD  
Stanford University

Danielle Ludwin, MD  
Columbia University Medical Center

Julie Marosky Thacker, MD  
Duke University School of Medicine

Donald Mathews, MD  
University of Vermont

Kim Mauer, MD  
School of Medicine, Oregon Health & Sciences University
Tracy McGrane, MD
Vanderbilt University

Daniel McIsaac, MD, MPH, FRCPC
University of Ottawa Faculty of Medicine

Jill Mhyre, MD
University of Arkansas for Medical Sciences

Merrick Miles, MD
Vanderbilt University

Tiffany Moon, MD
UT Southwestern Medical Center

Michael Murray, MD
Geisinger Medical Center

Peter Nagele, MD, MSc
University of Chicago Medicine

Aaron Norris, MD, PhD
Washington University School of Medicine

Nancy Nussmeier, MD
Massachusetts General Hospital

Christina Pabelick, MD
Mayo Clinic Rochester

Sheela Pai Cole, MD
Stanford University

Chanannait Paisansathan, MD
University of Illinois at Chicago

Jean-Francois Pittet, MD
University of Alabama at Birmingham

Niraja Rajan, MD
Penn State Health Milton S. Hershey Medical Center; Hershey Outpatient Surgical Center

Satya Krishna Ramachandran, FRCA
Harvard Medical School at Beth Israel Deaconess Medical Center

Katie Schenning, MD, MPH
School of Medicine, Oregon Health & Sciences University

Peter Schulman, MD
Oregon Health & Science University

Roman Schumann, MD
Tufts University School of Medicine

Aryeh Shander, MD, FCCM, FCCP, FASA
Englewood Hospital and Medical Center

Roman Sniecinski, MD
Emory University School of Medicine

Marc Steurer, MD, MHA, DESA
University of California, San Francisco School of Medicine

Astrid Stucke, MD
Medical College of Wisconsin

John Sullivan, MD
Northwestern Feinberg School of Medicine

Bobbie Jean Sweitzer, MD, FACP
Northwestern University Feinberg School of Medicine

Vivianne Tawfik, MD, PhD
Stanford University School of Medicine

Brandon Togioka, MD
School of Medicine, Oregon Health & Sciences University

Dana Tomescu, MD
Institutul Clinic Fundeni

Ankeet Udani, MD, MSEd
Duke University

Tetsu (Butch) Uejima, MD, MMM
Children’s Health System

Monica Vavilala, MD
University of Washington Medicine

Peter Von Homeyer, MD, FASE
University of Washington Medicine

Anupama Wadhwa, MBBS
University of California, San Diego

Gebhard Wagener, MD
Vagelos College of Physicians & Surgeons, Columbia University Medical Center

Elizabeth Whitlock, MD, MSc
University of California, San Francisco School of Medicine

David Wong, MD
University of Toronto

Samantha Yeap, MD
Indiana University

Patrick Ziemann-Gimmel, MD
Envision Physician Services
ALIGNMENT LIAISON COMMITTEE

Michael S. Avidan, MBBCh
At-Large
Washington University School of Medicine

Keith (Tony) A. Jones, MD
IARS Chair
University of Alabama Medical Center

Colleen G. Koch, MD, MS, MBA, FACC
IARS
The Johns Hopkins University School of Medicine

Jeffrey R. Kirsch, MD
AUA
Oregon Health and Science University

Jeanine P. Wiener-Kronish, MD
AUA
Massachusetts General Hospital

Daniel R. Brown, MD, PhD, FCCM
SOCCA
Mayo Clinic

Miguel Cobas, MD, FCCM
SOCCA
University of Miami

Julie Freed, MD, PhD
eSAS
Medical College of Wisconsin

Aaron Norris, MD, PhD
eSAS
Washington University School of Medicine

Hiroshi Otake, MD, MBA, PhD
IARS
Showa University School of Medicine

Keith H. Baker, MD
AUA
Massachusetts General Hospital

Ines Koerner, MD, PhD
AUA
Oregon Health & Science University

Monica S. Vavilala, MD
AUA
University of Washington Medicine

Sheela Pai Cole, MD
SOCCA
Stanford University

Peter Von Homeyer, MD, FASE
SOCCA
University of Washington Medicine

Julie Freed, MD, PhD
eSAS
Medical College of Wisconsin

Aaron Norris, MD, PhD
eSAS
Washington University School of Medicine

INNOVATIVE PROGRAM INITIATIVES COMMITTEE

Michael S. Avidan, MBBCh
Co-Chair
Washington University School of Medicine

Beverley A. Orser, MD, PhD, FRCPC
Co-Chair
University of Toronto

Lawrence F. Chu, MD, MS
Stanford University School of Medicine

Clyde Matava, MBChB, DA, MMEd
Hospital for Sick Children

Vivianne L. Tawfik, MD, PhD
Stanford University School of Medicine

Elizabeth Whitlock, MD
University of California, San Francisco

ALIGNMENT PROGRAM COMMITTEE

Michael S. Avidan, MBBCh
At-Large
Washington University School of Medicine

Sachin Kheterpal, MD, MBA
IARS
University of Michigan Medicine

Beverley A. Orser, MD, PhD, FRCPC
IARS
University of Toronto
IARS, AUA AND SOCCA 2019 ANNUAL MEETINGS
ABSTRACT REVIEWERS

Claude Abdallah, MD, MSc
Ezeldeen Abuelkasem, MBBCh, MSc
Andaleeb A. Ahmed, MD, MPH
Ozan Akca, MD, FCCM
Thomas A. Anderson, MD, PhD
Sara Anwar, MD
Bill Armstead, PhD
Yusuke Asakura, MD, MSc, PhD
Ahmed F. Attaallah, MD, PhD
Thomas M. Austin, MD, MS
Omid Azimaraghi, MD
Xiaowen Bai, PhD
Keith Baker, MD, PhD
Ratan K. Banik, MD, PhD
Andrew Barker, MD
Karsten Bartels, MD, PhD
Istvan Batai, PhD
Talia K. Ben-Jacob, MD
Suzanne Bennett, MD
Horonio Benzoin, MD
Jeffrey Berman, MD
Alisha Bhatia, MD
Edward Bittner, MD, PhD, MSEd, FCCP, FCCM
Anna Maria Bombardieri, MD, PhD
Brenda Bucklin, MD
Daniel Bustamante, MD
Arthur Calimaran, MD
Javier Campos, MD
Keith Candidotti, MD
Zyad J. Carr, MD
Marco Cascella, MD
Manuel Castresana, MD
Praveen Chahar, MD, FCARCSI
Indranil Chakraborty, MD
Wei Chao, MD, PhD
Jean G. Charchaffieh, MD, MPH, DrPH
Swapna Chaudhuri, MD
Akhilanand Chaurasia, BDS, MDS, CHCWM
Lucy Chen, MD
Surendrasingh Chhabada, MD
Franklyn P. Cladis, MD
Miguel Cobas, MD, FCCM
Stephen R. Collins, MD
Robert M. Craft, MD

Peter Davis, MD
Johanna B. De Haan, MD
Getulio R. De Oliveira Filho, MD, PhD
Ranjit Deshpande, MBBS
Jagan Devarajan, MD, MBA, FASA
James Dinardo, MD
Martin Dworschak, MD, MBA
Tobias Eckle, MD, PhD
Holger K. Eltzschig, MD, PhD
Kristin Engelhard, MD
Brenda Fahy, MD, MCCM
Antolin Flores, MD
Edward D. Foley, MD
Gyorgy Frendl, MD, PhD
Robert Gaiser, MD
Paul S. Garcia, MD, PhD
Jeffrey Gardner, MD
Shuchita Garg, MD, DNB, MNAMS
Irina Gasanova, MD
Ahmed Gilani, FRCA, FFICM, MBChB, DPMSA
Kevin Gingrich, MD
Chris D. Glover, MD, MBA
Sheldon Goldstein, MD
Peter Goldstein, MD
Yaacov Gozal, MD
Navneet Grewal, MD
Jeffrey Gross, MD
Jacob Gutsche, MD
Satoshi Hagihira, MD, PhD
Fatemeh Hajimohamadi, MD
Matthew R. Hallman, MD
Dusan Hanidziar, MD, PhD
Luciana B. Heil, MD
Joseph M. Hendrix, MD
Erin Hennessey, MD
Eugene Hessel, MD
Ibtesam A. Hilmi, MD
Christopher G. Hughes, MD
Jose Humeanez, MD
Joseph Hyder, MD, PhD
Caleb Ing, MD, MS
Cullen Jackson, PhD
Muhammad Jaffar, MD, FASA FCCM
Narasimhan Jagannathan, MD
Christina L. Jeng, MD
Taylor Johnston, MD
Sean Josephs, MD
David R. Jury, MD, MS
Thomas G. Kannampallil, PhD
Kunal Karamchandani, MD, FCCP
Keisuke Kawata, MD
Mark Keegan, MD
Ashish K. Khanna, MD, FCCP, FCCM
Evan Kharasch, MD, PhD
Minjae Kim, MD, MS
Michael Kim, MD
Michael R. King, MD
Hiroyuki Kinoshita, MD, PhD
Robert Knapp, DO
Ines P. Koerner, MD, PhD
Christos A. Koutentis, MBChB, MS
Yukihide Koyama, MD, PhD
Stephan A. Kratzer, MD
Sabine Kreislinger, MD
Tom C. Krejcie, MD
Matthias Kreuzer, PhD
Promil Kukreja, MD, PhD
Jean Kwo, MD
Meghan Lane-Fall, MD, MSHP
Helen Lauro, MD
Jae-woo Lee, MD
Kay B. Leissner, MD
J. Lance Lichtor, MD
Ying Hui Low, MD
Carlos B. Mantilla, MD, PhD
Susan M. Martinelli, MD
Donald M. Mathews, MD
Sasha Mazzarello, MSc
Robert McCarthy, Pharm D
Stephen McHugh, MD
Matthias Merkel, MD, PhD
David Metro, MD
Meredith Miller, MD
John D. Mitchell, MD
Vanessa Moll, MD
Hiroshi Morimatsu, MD, PhD
Jayanta Mukherji, MD
William Mulvoy, MD, MBA
Tichaendepi Mundangepfupfu, MD, MRes
W. Paul Murphy, MD, FASA
Paul Myles, MD
Bhiken Naik, MBBCh
Edward C. Nemergut, MD
Eshel A. Nir, MD
Mark C. Norris, MD
Jutta Novaila, MD, PhD
Detlef Obal, MD, PhD, DESA
Michael O’Connor, MD
Olutoyin Olutoye, MD
Vikas N. O’Reilly-Shah, MD, PhD
Hirosi Otake, MD, MBA, PhD
Makoto Ozaki, MD, PhD
Christina Pabelick, MD
Paul Pagel, MD
Sher-Lu Pai, MD
Chanannait Paisansathan, MD
Soumi Pathak, MD
Ronald Pauldine, MD
Ronald Pearl, MD, PhD
Feyce Peralta, MD
William T. Peruzzi, MD
Mark Phillips, MD
Paul Picton, MD
Jean-Francois Pittet, MD
Paul Potnuru, MD
Benedikt Preckel, MD
Debra Pulley, MD
Lindsay Raleigh, MD
Harish Ram, MD
Annette Rebel, MD
Elizabeth Rebello, MD
Francis Remerand, MD, PhD
Sheila Riazi, MD
Mark Rice, MD
Matthew Riess, MD
Laurence Ring, MD
Matthew J. Ritter, MD
Pamela R. Roberts, MD
Amy Robertson, MD
Peter Rock, MD, MBA, FCCM
Gerardo Rodriguez, MD
Meg Rosenblatt, MD
Eric Rosero, MD, MSc
Ram Roth, MD
Wael Saasouh, MD
Nicholas Sadovnikoff, MD
Tetsuro Sakai, MD, PhD, MHA, FASA
Derek Sakata, MD
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>John J. Savarese, MD</td>
<td></td>
</tr>
<tr>
<td>Sarah Saxena, MD</td>
<td></td>
</tr>
<tr>
<td>Michael P. Schnetz, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Peter Schulman, MD</td>
<td></td>
</tr>
<tr>
<td>Roman Schumann, MD</td>
<td></td>
</tr>
<tr>
<td>John Sear, BSc MBBS PhD</td>
<td></td>
</tr>
<tr>
<td>Pavan Sekhar, MD</td>
<td></td>
</tr>
<tr>
<td>Shahzad Shaefi, MD</td>
<td></td>
</tr>
<tr>
<td>Muhammad I. Shaikh, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Alexander D. Shapeton, MD</td>
<td></td>
</tr>
<tr>
<td>Priyanka Singla, MD</td>
<td></td>
</tr>
<tr>
<td>Richard Smiley, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Loren Smith, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Roman Sniecinski, MD</td>
<td></td>
</tr>
<tr>
<td>Julia B. Sobol, MD</td>
<td></td>
</tr>
<tr>
<td>Ken Solt, MD</td>
<td></td>
</tr>
<tr>
<td>Tanaya Sparkle, MBBS</td>
<td></td>
</tr>
<tr>
<td>Breandan Sullivan, MD</td>
<td></td>
</tr>
<tr>
<td>Madiha Syed, MD</td>
<td></td>
</tr>
<tr>
<td>Ashley Szabo, MD</td>
<td></td>
</tr>
<tr>
<td>Niccolo Terrando, PhD</td>
<td></td>
</tr>
<tr>
<td>Kevin Thornton, MD</td>
<td></td>
</tr>
<tr>
<td>Lisa To, MD</td>
<td></td>
</tr>
<tr>
<td>Carla Todaro, MD</td>
<td></td>
</tr>
<tr>
<td>James Tse, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Kathleen Tyson, MD</td>
<td></td>
</tr>
<tr>
<td>Hironobu Ueshima, MD</td>
<td></td>
</tr>
<tr>
<td>Manuel C. Vallejo, MD, DMD</td>
<td></td>
</tr>
<tr>
<td>Andrea Vannucci, MD</td>
<td></td>
</tr>
<tr>
<td>Terrie Vasilopoulos, PhD</td>
<td></td>
</tr>
<tr>
<td>Susan Verghese, MD</td>
<td></td>
</tr>
<tr>
<td>Anupama Wadhwa, MBBS</td>
<td></td>
</tr>
<tr>
<td>Gebhard Wagener, MD</td>
<td></td>
</tr>
<tr>
<td>Brant Wagener, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Michael Wall, MD, FCCM</td>
<td></td>
</tr>
<tr>
<td>Michael Walsh, MD</td>
<td></td>
</tr>
<tr>
<td>Richa Wardhan, MD</td>
<td></td>
</tr>
<tr>
<td>Emmett Whitaker, MD</td>
<td></td>
</tr>
<tr>
<td>Jeffrey D. White, MD</td>
<td></td>
</tr>
<tr>
<td>Robert Whittington, MD</td>
<td></td>
</tr>
<tr>
<td>Duminda N. Wijeyssundera, MD, PhD, FRCPC</td>
<td></td>
</tr>
<tr>
<td>Troy Wildes, MD</td>
<td></td>
</tr>
<tr>
<td>Brittney Williams, MD</td>
<td></td>
</tr>
<tr>
<td>Samrat Worah, MD</td>
<td></td>
</tr>
<tr>
<td>Hannah M. Wunsch, MD, MSc</td>
<td></td>
</tr>
<tr>
<td>Samantha Yeap, MD</td>
<td></td>
</tr>
<tr>
<td>Masataka Yokoyama, MD</td>
<td></td>
</tr>
<tr>
<td>Tomoko Yorozu, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Kenji Yoshitani, MD</td>
<td></td>
</tr>
</tbody>
</table>
2020 is going to be your year! We’re now accepting session proposals for the IARS 2020 Annual Meeting.

Here’s your chance to make that idea for an IARS Annual Meeting session a reality. Whether it’s a big picture topic that affects the whole field or a hands-on session tackling a specific challenge in the operating room, it’s time to tell us about it.

And before you know it, you’ll be part of a session at the IARS Annual Meeting in San Francisco, May 15 – May 18.

Be sure to submit your proposal by July 10, 2019 at meetings.iars.org
Everyone is coming to our place in 2020!
Actually, we’ll be at the Hilton San Francisco Union Square, May 14 – 18, and can’t wait to show you our hometown.
Find out more at meetings.iars.org.