

# ASSOCIATION OF UNIVERSITY ANESTHESIOLOGISTS

ANNUAL MEETING

AUA 2021 Annual Meeting  
PRELIMINARY PROGRAM

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Thursday, May 13, 2021

Leadership Advisory Board Panel I: Toward Diversity, Inclusivity and Excellence at the AUA

**11:00 am – 12:00 pm**

Moderator: *Jeanine Weiner-Kronish, MD, Massachusetts General Hospital, Boston, MA*

- 11:00 – 11:08 am Introduction  
*Jeanine Weiner-Kronish, MD  
Massachusetts General Hospital, Boston, MA*
- 11:08 am – 11:20 am *Maya Jalbout Hastie, MD, EdD  
Columbia University Medical Center, New York, NY*
- 11:20 am – 11:32 am *Meghan Lane-Fall, MD, MSHP  
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA*
- 11:32 am – 11:44 am *Valerie Armstead, MD  
Temple University Lewis Katz School of Medicine, Philadelphia, PA*
- 11:44 am – 12:00 pm Moderated Q&A and Discussion

Break

**12:00 pm – 12:15 pm**

Scientific Advisory Board Oral Session I

**12:15 pm – 1:15 pm**

Moderator: *Ines Koerner, MD, PhD, Oregon Health & Science University, Portland, OR*

- 12:15 pm – 12:22 pm **Junior Faculty Pediatric Medicine Research Award**  
**(Award supported supported by Dr. Y.S. Prakash, MD, PhD)**  
CYP2B6 and POR polymorphisms influence metabolism and clinical outcomes of perioperative methadone in children  
*Senthil Packiasabapathy, MD  
Indiana University School of Medicine*
- 12:22 pm – 12:29 pm Q&A
- 12:29 pm – 12:36 pm **Junior Faculty Perioperative Medicine Research Award**

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**(Award supported supported by Dr. Y.S. Prakash, MD, PhD)**

Anesthesia and the gut microbiome: exploring the effects of Isoflurane, propofol, and supplemental oxygen in a murine model of general anesthesia

*Mara Serbanescu, MD*

*Johns Hopkins University School of Medicine*

12:36 pm – 12:43 pm

Q&A

12:43 pm – 12:50 pm

**Junior Faculty Research Award**

Comparison of Intravenous Waveform Analysis to Current Markers for Detection of Hemorrhage in a Rat Model

*Matthew Barajas, MD*

*Vanderbilt University Medical Center*

12:50 pm – 12:57 pm

Q&A

12:57 pm – 1:04 pm

**Margaret Wood Resident Research Award**

Modulation Of Microvascular Blood Flow And Stroke Outcome Via GPR39 in Mice

*Yifan Xu, MD, PhD*

*Oregon Health and Sciences University*

1:04 pm – 1:11 pm

Q&A

Break

**1:15 pm – 1:30 pm**

Host Program: University of California, San Francisco and Stanford University

**1:30 pm – 2:30 pm**

**Host Program Panel I: University of California, San Francisco: Health Equity and Social Determinants of Health**

1:30 pm – 1:35 pm

*Introduction*

*Michael Gropper, MD, PhD*

*Host Institution Chair, University of California, San Francisco, CA*

1:35 pm – 1:55 pm

*Surgical Equity and Violence Prevention*

*Rochelle Dicker, MD*

*University of California, San Francisco, CA*

1:55 pm – 2:00 pm

*Moderated Q&A*

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## Host Program Panel II: Stanford University: Diversity in Academic Medicine

2:00 pm – 2:05 pm	<i>Introduction</i> <i>Ronald Pearl, MD, PhD, Host Institution Chair</i> <i>Stanford University School of Medicine, Stanford, CA</i>
2:05 pm – 2:25 pm	<i>Diversity in Academic Medicine: Essential for Excellence</i> <i>Yvonne (Bonnie) Maldonado, MD</i> <i>Stanford University School of Medicine, Stanford, CA</i>
2:25 pm – 2:30 pm	<i>Moderated Q&amp;A</i>

Break

**2:30 pm – 2:45 pm**

Oral Abstract Sessions

*Oral Abstract Session Concurrent 1: Airway, Respiration*

**2:45 pm – 3:45 pm**

Moderator: *Frederic (Josh) Billings, MD, MSc, Vanderbilt University Medical Center, Nashville, TN*

2:45 pm – 2:50 pm	Negative Pressure Airway Chamber: A Clinical Simulation Trial of an Isolation Chamber <i>Stefan Kojic, Doctor of Medicine</i> <i>University of British Columbia</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Exploring the association between provider years in training and comfort and fear levels during primary and subsequent intubation attempts of COVID-19 patients <i>Muhammad El Shatanofy, BS</i> <i>The George Washington University School of Medicine &amp; Health Sciences</i>
2:59 pm – 3:03 pm	Q&A
3:03 pm – 3:08 pm	Effect of Low Left Paratracheal Compression on Carotid Blood Flow <i>Flavien Grandjean, MD</i> <i>University of Liege</i>
3:08 pm – 3:12 pm	Q&A

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3:12 pm – 3:17 pm	Quantitative fit-testing of a locally produced, reusable, valved half-face respirator during COVID-19 pandemic. <i>Arnaud Romeo Mbadjeu Hondjeu, MD</i> <i>Toronto General Hospital</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	The TMEM16A Antagonist Benzbromarone Decreases $\text{Ca}^{2+}$ -Adrenergic Receptor Desensitization in Human Airway Smooth Muscle In Vitro <i>Amy Wu</i> <i>Columbia University</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	Inhibition of phospholipase C in human airway epithelial cells with ginger metabolite-inspired compounds <i>Elvedin Lukovic, MD, PhD</i> <i>College of Physicians and Surgeons, Columbia University</i>
3:35 pm – 3:39 pm	Q&A

## *Oral Abstract Session Concurrent 2: Neuroscience 1*

**2:45 pm – 3:45 pm**

Moderator: *Rene Przkora, MD, PhD, University of Florida, Gainesville, FL*

2:45 pm – 2:50 pm	Reduction in Cerebral Blood Flow During Aeromedical Evacuation-Relevant Hypobaric Following Rat Traumatic Brain Injury <i>Gary Fiskum, Ph.D</i> <i>University of Maryland School of Medicine</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Whole-brain network connectivity changes with midazolam sedation during task performance and periodic pain: A functional MRI study in healthy young adults <i>Keith Vogt, MD, PhD</i> <i>University of Pittsburgh</i>
2:59 pm – 3:03 pm	Q&A
3:03 pm – 3:08 pm	Perioperative neurocognitive and neuroimaging trajectories in older APOE4 carriers vs non-carriers: A prospective cohort study <i>Rosa Yang, MS</i> <i>Duke University School of Medicine</i>

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3:08 pm – 3:12 pm	Q&A
3:12 pm – 3:17 pm	Pharmacological restoration of anti-nociceptive functions in the rat prefrontal cortex relieves chronic pain <i>Qiaosheng Zhang, Ph.D</i> <i>NYU School of Medicine</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	Isoflurane specifically inhibits endocytosis due to acute ATP depletion in mouse neurons: a mechanism of action for volatile anesthetics <i>Phil Morgan, MD</i> <i>University of Washington</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	Imaging Cortical Circuitry during General Anesthesia-Induced Analgesia <i>Jarret Weinrich, Ph.D.</i> <i>University of California San Francisco</i>
3:35 pm – 3:39 pm	Q&A

## *Oral Abstract Session Concurrent 3: Pharmacology, Critical Care*

**2:45 pm – 3:45 pm**

Moderator: *Meghan Lane-Fall, MD, MSHP, FCCM, University of Pennsylvania, Philadelphia, PA*

2:45 pm – 2:50 pm	Structural mechanism of lipid modulation of a pentameric ligand-gated ion channel <i>Wayland Cheng, MD/PhD</i> <i>Washington University</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Ketamine Produces a Long-Lasting Enhancement of CA1 Neuron Excitability <i>Grace Jang, MPH</i> <i>Stanford University School of Medicine</i>
2:59 pm – 3:03 pm	Q&A

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3:03 pm – 3:08 pm	A finite element model for isoflurane release from perfluorocarbon nanoemulsions as a predictor of bolus dosing and time to effect in a rodent model. <i>Christopher A. Fraker, PhD</i> <i>University of Miami Miller School of Medicine</i>
3:08 pm – 3:12 pm	Q&A
3:12 pm – 3:17 pm	Postoperative acute kidney injury is associated with progression of chronic kidney disease independent of severity <i>Jamie Privratsky, MD, PhD</i> <i>Duke University</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	The neuroprotective effects of metformin: Insights from rodent cardiac arrest and in vitro ischemia-reperfusion of neurons and astrocytes <i>Santiago Miyara, MD</i> <i>Feinstein Institutes for Medical Research</i>
3:26 pm – 3:30 pm	Q&A

## *Oral Abstract Session Concurrent 4: Cardiovascular Anesthesiology, Organ Injury*

**2:45 pm – 3:45 pm**

Moderator: *Jean-Francois Pittet, MD, The University of Alabama at Birmingham, Birmingham, AL*

2:45 pm – 2:50 pm	Impact of hyperoxia on renal tissue oxygenation, reactive oxygen species production, and oxidative damage in a murine ischemia reperfusion model <i>Melissa Kimlinger, BS</i> <i>Vanderbilt University School of Medicine</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Trained Immunity with Synthetic Toll-like Receptor 4 Agonist Protects Against Acute Kidney Injury in a Model of Ischemia-Reperfusion Injury <i>Antonio Hernandez, MD MSCI</i> <i>Vanderbilt University Medical Center</i>
2:59 pm – 3:03 pm	Q&A
3:03 pm – 3:08 pm	Cardiac Sodium Channel Mutations Are Associated with Sex-Specific Arrhythmias in Mice <i>Tim Lee, BSc</i>

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3:08 pm – 3:12 pm	<i>University of Toronto</i> Q&A
3:12 pm – 3:17 pm	Outcomes and Risk Factors for Cardiovascular Events in Hospitalized COVID-19 Patients <i>Jiapeng Huang, MD, PhD</i> <i>University of Louisville</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	Cardiac Output Estimation by Multi-Beat Analysis of Arterial Blood Pressure Waveform versus Continuous Pulmonary Artery Thermodilution in Post Cardiac Surgery Intensive Care Unit Patients <i>Ashish Khanna, MD, FCCP, FCCM</i> <i>Wake Forest University School of Medicine</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	Endothelial Activation by Liver Reperfusion Injury in Transplantation <i>Michael Bokoch, MD, PhD</i> <i>University of California, San Francisco</i>
3:35 pm – 3:39 pm	Q&A

## *Oral Abstract Session Concurrent 5: Obstetric Anesthesia, Education*

**2:45 pm – 3:45 pm**

Moderator: *Maurizio Cereda, MD, University of Pennsylvania, Philadelphia, PA*

2:45 pm – 2:50 pm	Percentage of cases in pairs and triplets of operating rooms of sufficient duration to accommodate a 30-minute breast milk pumping session by supervising anesthesiologists <i>Sarah Titler, MD</i> <i>University of Iowa</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Assessing interrater reliability of a faculty-provided feedback rating system <i>John Mitchell, MD</i> <i>Beth Israel Deaconess Medical Center, Harvard Medical School</i>
2:59 pm – 3:03 pm	Q&A
3:03 pm – 3:08 pm	Assessment of left ventricular diastolic function by analyzing

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3:08 pm – 3:12 pm	intraventricular pressure difference during third trimester of pregnancy <i>Yurie Obata, MD</i> <i>Yodogawa Christian Hospital</i> Q&A
3:12 pm – 3:17 pm	Intrinsic Risk of Cesarean delivery Assessed as the Incidence of Postpartum Acute Kidney Injury: A Retrospective Large Database Propensity Score Matched Study <i>Paul Potnuru, MD</i> <i>University of Miami Miller School of Medicine</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	ED90 of Oxytocin Infusion During Cesarean Delivery in Non-laboring Preeclamptics receiving Magnesium Sulfate Therapy and Normotensives: An Up-Down Sequential Allocation Dose-Response Study <i>Devansh Garg, MBBS</i> <i>University College of Medical Sciences</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	The effect of ERAS on opioid use and opioid prescribing behaviors for opioid naive patients undergoing cesarean section <i>Erica Langnas, MD, MPH</i> <i>UCSF</i>
3:35 pm – 3:39 pm	Q&A

Break

**3:45 pm – 4:00 pm**

Leadership Advisory Board Panel II: Addressing Discrimination in the Workplace

**4:00 pm – 5:00 pm**

*Moderator: Mohammed Minhaj, MD*

4:00 pm – 4:45 pm      Renee Navarro, MD, PharmD  
*University of California, San Francisco, San Francisco, CA*

4:45 pm – 5:00 pm      Moderated Q&A and Discussion

Junior Faculty – Networking Opportunity

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5:00 pm – 6:00 pm

## 1. Work-life Balance for Academic Anesthesiologists

*Lisa Leffert, MD, Massachusetts General Hospital, Cynthia Wong, MD, University of Iowa Health Care, and Rene Przkora, MD, PhD, University of Florida*

## 2. Mentorship / Sponsorship

*Tetsuro Sakai, MD, PhD, MHA, FASA, University of Pittsburgh Medical Center, Robert Whittington, MD, Columbia University Irving Medical Center, Christina Pabelick, MD, Mayo Clinic, and Jeanine Wiener-Kronish, MD, Massachusetts General Hospital, Maria Bustillo, MD, Weill Cornell Medical College*

## 3. Leadership Development

*Mohammed Minhaj, MD, University of Chicago, Cynthia Lien, MD, Medical College of Wisconsin, and Kenneth Shelton, MD, Massachusetts General Hospital*

## 4. Education Research

*Ed Nemergut, MD, University of Virginia School of Medicine, Dan Saddawi-Konefka, MD, MBA, Massachusetts General Hospital, and Christine Park, MD, University of Illinois at Chicago*

## 5. Laboratory Research

*Ines Koerner, MD, PhD, Oregon Health & Science University and Niccolo Terrando, PhD, Duke University*

## 6. Clinical and Human Subject Research

*Jean-Francois Pittet, MD, The University of Alabama at Birmingham, and Deepak Sharma, MBBS, MD, DM, University of Washington Medicine*

## 7. Medical Education

*Keith Baker, MD, PhD, Massachusetts General Hospital, Dawn Dillman, MD, Oregon Health & Science University, Susie Martinelli, MD, University of North Carolina School of Medicine, and Jeffrey Berger, MD, MBA, George Washington University School of Medicine and Health Sciences*

## 8. Research on Health Care Disparities; Outcomes Research

*Michael Andreae, MD, Penn State Health Milton S. Hershey Medical Center and Thomas Anderson, MD, PhD, Stanford University School of Medicine*

## 9. Getting to DE&I in your Department

*Tracey Straker, MD, MS, MPH, FASA, Montefiore Medical Center and Allison Lee, MD, MS, Columbia University*

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Friday, May 14, 2021

## Women in Academic Anesthesiology Breakfast Networking Session

**10:00 am – 11:00 am**

10:00 am – 10:05 am

### **Introduction**

*Maya Jalbout Hastie, MD, EdD*

*Columbia University Medical Center, New York, NY*

10:05 am – 11:00 am

### **Discussion**

*Jeanine Wiener-Kronish, MD, Massachusetts General Hospital,  
Boston, MA*

*Cynthia Wong, MD, University of Iowa, Iowa City, IA*

*Teresa Mulaikal, MD, Columbia University Irving Medical Center,  
New York, NY*

## Educational Advisory Board Panel I: Multiple Choice Questions for Learning: A Critical Analysis of Effectiveness

**11:00 am – 12:00 pm**

*Moderator: Keith H. Baker, MD, Massachusetts General Hospital, Boston, MA*

11:00 pm – 11:15 pm

### **MOCA Minute: Educational Efficacy of the MOCA Minute**

*Ann Harman, PhD*

*The American Board of Anesthesiology, Raleigh-Durham, NC*

11:15 pm – 11:30 pm

### **Question Banks: Educational Paradigm Shift or Just a Fad?**

*Randy Schell, MD*

*University of Kentucky, Lexington, KY*

11:30 pm – 11:45 pm

### **Surface vs. Deep Learning: What Should Be our Goal, and Why?**

*Ed Nemergut, MD*

*University of Virginia, Charlottesville, VA*

11:45 pm – 12:00 pm

### **Q&A**

Break

**12:00 pm – 12:15 pm**

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## Scientific Advisory Board Oral Session II

**12:15 pm – 1:15 pm**

Moderator: *Ines Koerner, MD, PhD, Oregon Health & Science University, Portland, OR*

12:15 pm – 12:22 pm

### **Fellow Research Award**

Over-Transfusion in Pediatric Patients Intra-operatively. A Retrospective Observational Study at a Tertiary Pediatric Hospital.

*Timothy Walsh, MD*

*Boston Children's Hospital*

12:22 pm – 12:29 pm

Q&A

12:29 pm – 12:36 pm

### **Best of Meeting Research Award**

Preclinical evaluation of a novel glycinergic analgesic for treatment of chronic pain in rodents

*Yan Xu, PhD*

*University of Pittsburgh School of Medicine*

12:36 pm – 12:43 pm

Q&A

12:43 pm – 12:50 pm

### **Top Oral Abstract**

A hindered HCN1-selective inhibitor is antihyperalgesic in a rat spared nerve injury neuropathic pain model

*Dianna E. Willis, PhD*

*Burke Neurological Institute*

12:50 pm – 12:57 pm

Q&A

12:57 pm – 1:04 pm

### **Top Oral Abstract**

Hippocampal engrams recapitulate contextual memory formation, its suppression by etomidate, and its persistence in mice lacking  $\alpha 5$ -GABA<sub>A</sub> receptors in interneurons

*Mengwen Zhu, B.S.*

*University of Wisconsin*

1:04 pm – 1:11 pm

Q&A

## Break

**1:15 pm – 1:30 pm**

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## Combined Scientific Advisory Board and President's Session: Sleep and Health

**1:30 pm – 2:30 pm**

Moderator: Miriam Treggiari, MD, PhD, MPH, Yale University, New Haven, CT and Katie J. Schenning, MD, MPH, MCR, Oregon Health & Science University, Portland, OR

1:30 pm – 1:45 pm

### **Relevance of the Circadian and Sleep Systems to Physiology and Health**

*Amita Sehgal, PhD*

*Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA*

1:45 pm – 2:00 pm

### **The Intersection of Sleep and Neurological Diseases**

*Yo-El Ju, MD*

*Washington University School of Medicine, St. Louis, MO*

2:00 pm – 2:15 pm

### **Sleep and Anesthetic Hypnosis Converge in the Mammalian Hypothalamus**

*Max Kelz, MD, PhD*

*Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA*

2:15 pm – 2:30 pm

### **Q&A**

## Break

**2:30 pm – 2:45 pm**

## Oral Abstract Sessions

*Oral Abstract Session Concurrent 6: Ambulatory Anesthesia, Geriatrics, Global Health*

**2:45 pm – 3:45 pm**

Moderator: *Deepak Sharma, MBBS, MD, DM, University of Washington Medicine, Seattle, WA*

2:45 pm – 2:50 pm

Intrathecal morphine does not increase POUR in joint Arthroplasty surgeries. A double blind RCT

*Muhammad Imran Khan, MD*

*Mount Sinai Hospital, University of Toronto*

2:50 pm – 2:54 pm

Q&A

2:54 pm – 2:59 pm

Cognitive trajectory before and after elective total joint arthroplasty in a population-based cohort of older adults

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2:59 pm – 3:03 pm	<i>Elizabeth Whitlock, MD, MSc</i> <i>University of California, San Francisco School of Medicine</i> Q&A
3:03 pm – 3:08 pm	Preoperative cognitive impairment and frailty are risk factors for adverse postoperative outcomes after perioperative potentially inappropriate medication administration <i>Kevin Burfeind, PhD</i> <i>Oregon Health &amp; Science University</i>
3:08 pm – 3:12 pm	Q&A
3:12 pm – 3:17 pm	Comparison of Analgesic Efficacy of Ultrasound Guided Suprascapular Nerve Block (Anterior Approach) Versus Interscalene Brachial Plexus Block in Adults Undergoing Arthroscopic Shoulder Surgery <i>kapil gupta, MBBS MD</i> <i>VMMC and Safdarjung Hospital</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	A Randomized Comparison of Educational Booster Strategies on Team-based Clinical Performance During C-Section in Kenya <i>J Matthew Kynes, MD</i> <i>Vanderbilt University Medical Center</i>
3:26 pm – 3:30 pm	Q&A

## *Oral Abstract Session Concurrent 7: Neuroscience 2*

**2:45 pm – 3:45 pm**

Moderator: *C. David Mintz, MD, PhD, Johns Hopkins School of Medicine, Baltimore, MD*

2:45 pm – 2:50 pm	Neuron-glia crosstalk plays a major role in the neurotoxic effects of ketamine via extracellular vesicles <i>Donald Penning, MD, MSc</i> <i>Henry Ford Health System</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Brain wide mapping of neuronal activity evoked by MDMA, a rapid-acting therapy for post-traumatic stress disorder <i>Daniel Ryskamp, PhD</i> <i>Stanford University School of Medicine</i>
2:59 pm – 3:03 pm	Q&A

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3:03 pm – 3:08 pm	State decoupling of the <i>C. elegans</i> neural system under anesthesia and during emergence. <i>Christopher Connor, MD, PhD</i> <i>Brigham and Women's Hospital</i>
3:08 pm – 3:12 pm	Q&A
3:12 pm – 3:17 pm	Using the 5-choice serial reaction time task to measure cognitive recovery in rats following anesthetic emergence <i>Kathleen Vincent, PhD</i> <i>Massachusetts General Hospital</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	Modulation of Resistance to State Transitions is Dose Independent Across Volatile Anesthetics <i>Andrzej Wasilczuk, B.S.</i> <i>University of Pennsylvania</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	EEG-Derived State Dynamics At EC50 Isoflurane in Mice <i>Andrew McKinstry-Wu, MD</i> <i>Perelman School of Medicine, University of Pennsylvania</i>
3:35 pm – 3:39 pm	Q&A

## *Oral Abstract Session Concurrent 8: Pain Medicine*

### **2:45 pm – 3:45 pm**

Moderator: *Christine Sang, MD, MPH, Brigham and Women's Hospital, Harvard Medical School, Boston, MA*

2:45 pm – 2:50 pm	The benefits of transversus abdominis plane (TAP) block in bariatric surgery: a systematic review and meta-analysis <i>Chenchen Tian, BHSc</i> <i>University of Toronto</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Leveraging TRPV1 genetic divergence between avian and mammalian species to develop a TRPV1 <sup>[sup]</sup> K710N <sup>[sup]</sup> knock-in mouse and a novel analgesic <i>Shufang He, Ph.D.</i> <i>The Second Hospital of Anhui Medical University; Stanford University</i>
2:59 pm – 3:03 pm	Q&A

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3:03 pm – 3:08 pm	Morphine Tolerance and Reward is Regulated by Aldehyde Dehydrogenase-2 in Mice <i>Vanessa Zambelli, PhD</i> <i>Stanford University</i>
3:08 pm – 3:12 pm	Q&A
3:12 pm – 3:17 pm	Morphine causes Reduced Tumor Growth through Modulation of IDH1 Activity in Glioma Xenograft Mouse Model <i>Doorsa Tarazi, B.Sc.</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	Association between the Number of Prescribers of Concurrent Opioid and Benzodiazepine Medications and the Risk of Overdose: A Retrospective Analysis <i>Chris Rishel, MD, PhD</i> <i>Stanford University</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	The Association of Race and Ethnicity with Postoperative Analgesic Administration and Pain Scores in Children: A Single-Center Study of 29,614 Surgical Cases <i>Felipe Perez, MD</i> <i>Stanford University School of Medicine</i>
3:35 pm – 3:39 pm	Q&A

## *Oral Abstract Session Concurrent 9: Patient Safety, Perioperative Anesthesia*

**2:45 pm – 3:45 pm**

Moderator: *Michael Andrae, MD, Penn State Health Milton S. Hershey Medical Center, Hershey, PA*

2:45 pm – 2:50 pm	Non-Operating Room Anesthesia Care and Crisis Management in a Hybrid Magnetic Resonance Imaging-Operating Room: A Human Factors-based Assessment <i>Stefana Voicu, MS</i> <i>Geisel School of Medicine at Dartmouth</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Comparison of ToFscan and TetraGraph during Recovery of Neuromuscular Function in the Post Anesthesia Care Unit <i>J. Ross Renew, MD</i> <i>Mayo Clinic</i>

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2:59 pm – 3:03 pm	Q&A
3:03 pm – 3:08 pm	Natural Language Processing Predicts ASA Physical Status Classification from Pre-operative Note Text <i>Philip Chung, MD</i> <i>University of Washington</i>
3:08 pm – 3:12 pm	Q&A
3:12 pm – 3:17 pm	STIL-STRONGER: Association of Sugammadex Use with the Incidence of Postoperative Pulmonary Complications in a Population at Increased Risk <i>Douglas Colquhoun, MBChB, MSc, MPH</i> <i>University of Michigan Medicine</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	Mechanical power during general anesthesia and postoperative respiratory complications: A hospital registry study <i>Peter Santer, MD</i> <i>Beth Israel Deaconess Medical Center</i>
3:26 pm – 3:30 pm	Q&A

## *Oral Abstract Session Concurrent 10: Pediatric Anesthesia*

**2:45 pm – 3:45 pm**

Moderator: *Thomas Anderson, PhD, MD, Stanford University School of Medicine, Stanford, CA*

2:45 pm – 2:50 pm	Reduction of preoperative anxiety using Virtual Reality vs midazolam: A randomized controlled trial <i>Anthony Koo, MD</i> <i>Phoenix Childrens Hospital</i>
2:50 pm – 2:54 pm	Q&A
2:54 pm – 2:59 pm	Applying Machine Learning to Identify Pediatric Patients at Risk of Critical Perioperative Adverse Events: using the APRICOT Dataset <i>Hannah Lonsdale, MBChB</i> <i>Johns Hopkins University</i>
2:59 pm – 3:03 pm	Q&A
3:03 pm – 3:08 pm	Anesthesia and Neurotoxicity Study Design, Execution, and Reporting in the Nonhuman Primate: a Deep Dive <i>Feng Gao, M.D.</i>

# ASSOCIATION OF UNIVERSITY ANESTHESIOLOGISTS

ANNUAL MEETING

AUA 2021 Annual Meeting  
PRELIMINARY PROGRAM

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3:08 pm – 3:12 pm	<i>Baylor College of Medicine</i> Q&A
3:12 pm – 3:17 pm	Enhanced Recovery after Pediatric Congenital Heart Repair with Erector Spinae Plane Blockade: An Ongoing Prospective, Randomized Controlled Trial <i>Charles Lee, Bachelor of Science</i> <i>Stanford University School of Medicine</i>
3:17 pm – 3:21 pm	Q&A
3:21 pm – 3:26 pm	Meditative Virtual Reality for Parents with Limited English Proficiency During Pediatric Anesthesia: Emerging Data from a Prospective, Randomized, Controlled Trial <i>Charles Lee, Bachelor of Science</i> <i>Stanford University School of Medicine</i>
3:26 pm – 3:30 pm	Q&A
3:30 pm – 3:35 pm	Protocols in Pediatric Ambulatory Surgeries Do Not Decrease Disparities: A Single-Center Retrospective Study <i>Anjali Dixit, MD, MPH</i> <i>Seattle Children's Hospital; University of Washington</i>
3:35 pm – 3:39 pm	Q&A

*FAER Medical Student Research Program (MSARF) (90 Min for MSARF)*

**2:45 pm – 4:15 pm ET**

Moderator: Harriet Hopf

2:45 pm – 2:55 pm	Introduction Harriet Hopf
2:55 – 3:55 pm	Breakouts
3:55 – 4:15 pm	Award Presentations and Wrap-Up

Break

**3:45 pm – 4:00 pm**

Educational Advisory Board Panel II: Teaching About Leading

**4:00 pm – 5:00 pm**

Moderator: Keith Baker, MD, PhD, Massachusetts General Hospital

# ASSOCIATION OF UNIVERSITY ANESTHESIOLOGISTS

ANNUAL MEETING

AUA 2021 Annual Meeting  
PRELIMINARY PROGRAM

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4:00 pm – 4:15 pm

**What is the Evidence for Developing Mentorship Skills?**

*Deborah J. Culley, MD*

*Brigham and Women's Hospital, Boston, MA*

4:15 pm – 4:30 pm

**What is the Evidence for Developing Leadership Skills?**

*Berend Mets, MBChB, PhD, FRCA, FFASA*

*Penn State Health, Hershey, PA*

4:30 pm – 4:45 pm

**Is There Evidence That Leaders Can Reduce Burnout?**

*Alex Macario, MD, MBA*

*Stanford University, Stanford, CA*

4:45 pm – 5:00 pm

**Q&A**

# ASSOCIATION OF UNIVERSITY ANESTHESIOLOGISTS

ANNUAL MEETING

AUA 2021 Annual Meeting  
PRELIMINARY PROGRAM

## Saturday, May 14, 2021 – Join the AUA Symposium During the IARS Annual Meeting

This session is open to all AUA and IARS Meeting Registrants

Association of University Anesthesiologists (AUA) Sponsored Symposium: Anesthesia and the Microbiome: Exploring a New Frontier in Perioperative Medicine

Moderator: *Ines Koerner, MD, PhD, Oregon Health & Science University, Portland, OR*

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|-------------------|--|
| 1:10 pm – 1:23 pm | Anesthetic Effects on the Gut Microbiome<br><i>Cyrus Mintz, MD, PhD</i><br><i>Johns Hopkins School of Medicine, Baltimore, MD</i>            |
| 1:24 pm – 1:37 pm | Gut Microbiota in Neuroinflammation and Pain<br><i>Shiqian Shen, MD</i><br><i>Massachusetts General Hospital, Charlestown, MA</i>            |
| 1:38 pm – 1:51 pm | Gut Dysbiosis in Critical Illness<br><i>Paul Wischmeyer, MD, EDIC, FASPEN, FCCM</i><br><i>Duke University School of Medicine, Durham, NC</i> |
| 1:51 pm – 2:10 pm | Moderated Discussion and Q&A   |