

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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12:36 pm – 12:43 pm	<p>(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 <i>Mara Serbanescu, MD</i> <i>Johns Hopkins University School of Medicine</i> Q&A</p>
12:43 pm – 12:50 pm	<p>Junior Faculty Research Award Comparison of Intravenous Waveform Analysis to Current Markers for Detection of Hemorrhage in a Rat Model <i>Matthew Barajas, MD</i> <i>Vanderbilt University Medical Center</i> Q&A</p>
12:50 pm – 12:57 pm	<p>Margaret Wood Resident Research Award Modulation Of Microvascular Blood Flow And Stroke Outcome Via GPR39 in Mice <i>Yifan Xu, MD, PhD</i> <i>Oregon Health and Sciences University</i> Q&A</p>
12:57 pm – 1:04 pm	
1:04 pm – 1:11 pm	

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	<p><i>Introduction</i> <i>Michael Gropper, MD, PhD</i> <i>Host Institution Chair, University of California, San Francisco, CA</i></p>
1:35 pm – 1:55 pm	<p><i>Surgical Equity and Violence Prevention</i> <i>Rochelle Dicker, MD</i> <i>University of California, San Francisco, CA</i></p>
1:55 pm – 2:00 pm	<p><i>Moderated Q&A</i></p>

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

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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 α_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 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> Q&A
3:17 pm – 3:21 pm	ED90 of Oxytocin Infusion During Cesarean Delivery in Non-laboring Preeclampsics 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> Q&A
3:21 pm – 3:26 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> Q&A
3:26 pm – 3:30 pm	
3:30 pm – 3:35 pm	
3:35 pm – 3:39 pm	

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 Andraea, 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_A 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 & 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 ^{K710N} 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 Andraea, 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

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 – 2:55 pm Introduction
Dr. Harriet W. Hopf

2:55 – 3:55 pm Poster Presentations
Moderators (2): Drs. Bradley Fritz and Loren Smith
FAER Admin (1): Olivia Stephens

2:55 pm – 3:05 pm	Christine Shen (7 minutes for presentation, 3 for Q&A)
3:05 pm – 3:15 pm	Stephanie Ong (7 minutes for presentation, 3 for Q&A)
3:15 pm – 3:25 pm	Praveen Rajaguru (7 minutes for presentation, 3 for Q&A)
3:25 pm – 3:35 pm	Isis Zhang (7 minutes for presentation, 3 for Q&A)
3:35 pm – 3:45 pm	Monica Taneja (7 minutes for presentation, 3 for Q&A)
3:45 pm – 3:55 pm	Rosalyn Chen (7 minutes for presentation, 3 for Q&A)

ASSOCIATION OF UNIVERSITY ANESTHESIOLOGISTS

ANNUAL MEETING

AUA 2021 Annual Meeting
PRELIMINARY PROGRAM

3:55 pm – 4:05 pm Varun Yarabarla (7 minutes for presentation, 3 for Q&A)

4:05 – 4:15 pm Award Presentations and Wrap-Up
Mary Dale Peterson, MD, MSHCA, FACHE

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

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