

# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



## PRELIMINARY PROGRAM

Saturday, May 15, 2021

Welcome from the IARS Board of Trustees Chair

**11:00 am – 11:15 am** Keith A. “Tony” Jones, MD, PhD  
IARS BOT Chair

T.H. Seldon Memorial Lecture: *Translational Science in the 21<sup>st</sup> Century*

**11:15 am - 12:00 pm**  
*Christopher P. Austin, MD*  
Director, National Center for Advancing Translational Sciences National Institutes of Health, Bethesda, MD

Science of COVID Symposium

**12:00 pm – 1:00 pm**

Moderator: *Michael S. Avidan, MBBCh, Washington University in St. Louis, St. Louis, Missouri*

- |                     |   |
|---------------------|---|
| 12:00 pm – 12:10 pm | Use of inhaled anesthetics as anti-inflammatories<br><i>Angela Jerath, MSc, FRCPC, FANZCA, MD, BSc</i><br><i>Toronto General Hospital, Toronto, Ontario</i> |
| 12:10 pm – 12:20 pm | So what is going on with coagulation in COVID-19 infection?<br><i>Beverley Hunt, OBE FRCP FRCPATH</i><br><i>King’s College London, London, UK</i>           |
| 12:20 pm – 12:30 pm | Role of trained immunity in fighting new pandemics<br><i>Leon du Toit, MMed</i><br><i>University of Cape Town, Cape Town, South Africa</i>                  |
| 12:30 pm – 1:00 pm  | Moderated Discussion and Q&A  |

Break

**1:00 pm – 1:10 pm**

Concurrent Sessions

**1:10 pm – 2:10 pm**

1. Navigating the Behavioral Economics of Neurocritical Care 

1:10 pm – 1:28 pm *Patrick Britell, Medical University of South Carolina, Charleston, SC*

1:28 pm – 1:40 pm Q&A

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## PRELIMINARY PROGRAM

### 2. Panel: How Advances in Technology Will Impact the Practice of Anesthesiology

Moderator: *Ronald Pearl, MD, PhD, Stanford University School of Medicine, Stanford, CA*

1:10 pm – 1:20 pm                      How Advances in Surgery Will Change the Practice of Anesthesiology

*Gaganpreet Grewal, MD*

*University of Texas Southwestern Medical Center, Dallas, TX*

1:20 pm – 1:30 pm

Artificial Intelligence, Machine Learning, and the Practice of Anesthesiology

*Michael Mathis, MD*

*University of Michigan Medicine, Ann Arbor, MI*

1:30 pm – 1:40 pm

Remote Monitoring to Improve Patient Outcomes

*Jeanine Wiener-Kronish, MD*

*Massachusetts General Hospital, Boston, MA*

1:40 pm – 1:50 pm

How Advances in Pharmacology Will Change the Practice of Anesthesiology

*Alex Evers, MD*

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

1:50 pm – 2:10 pm

Moderated Discussion and Q&A

### 3. Panel: Prehabilitation and Medical Optimization in High-Risk Surgical Patients

Moderator: *Matthew McEvoy, MD, Vanderbilt University Medical Center, Nashville, TN*

1:10 pm – 1:22 pm

Frailty and sarcopenia: what can I do about that?

*Kimberly Rengel, MD*

*Vanderbilt University Medical Center, Nashville, TN*

1:22 pm – 1:34 pm

Nutritional optimization before surgery

*Paul Wischmeyer, MD, EDIC, FASPEN, FCCM*

*Duke University School of Medicine, Durham, NC*

1:34 pm – 1:46 pm

Preoperative cognitive assessment and optimization

*Deborah Culley, MD*

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

1:46 pm – 1:58 pm

Preoperative medical optimization programs: practical steps for implementation

*Matthew McEvoy, MD*

*Vanderbilt University Medical Center, Nashville, TN*

1:58 pm – 2:10 pm

Q&A

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## PRELIMINARY PROGRAM

### 4. 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*

1:10 pm – 1:23 pm    Anesthetic Effects on the Gut Microbiome  
*Cyrus Mintz, MD, PhD*  
*Johns Hopkins School of Medicine, Baltimore, MD*

1:24 pm – 1:37 pm    Gut microbiota in neuroinflammation and pain  
*Shiqian Shen, MD*  
*Massachusetts General Hospital, Charlestown, MA*

1:38 pm – 1:51 pm    Gut dysbiosis in critical illness  
*Paul Wischmeyer, MD, EDIC, FASPEN, FCCM*  
*Duke University School of Medicine, Durham, NC*

1:51 pm – 2:10 pm    Moderated Discussion and Q&A

### 5. Smart Tots Panel: Update on Pediatric Anesthetic Neurotoxicity

Moderator: *Dean Andropoulos, MD, MHCM, Texas Children's Hospital, Houston, TX*

1:00 pm -1:15 pm    Clinical Anesthetic Neurotoxicity: Are There Unanswered Questions?  
*Andrew Davidson, MD*  
*Royal Children's Hospital, Victoria, Australia*

1:15 pm – 1:30 pm    Behavioral Outcomes in GAS, MASK, PANDA: Is There a Phenotype?  
*Caleb Ing, MD*  
*Columbia University Irving Medical Center, New York, NY*

1:30 pm – 1:45 pm    Pre-Clinical Research: What Are the Priorities?  
*Laszlo Vutskits, MD*  
*University Hospitals of Geneva, Geneva, Switzerland*

1:45 pm – 2:00 pm    Moderated Discussion and Q&A

## Break

**2:10 pm – 2:20 pm**

## International Science Symposium: Psychedelic Neuroscience

**2:20 pm – 3:20 pm**

Moderator: *George Mashour, MD, PhD, University of Michigan, Ann Arbor, Michigan*

2:20 pm – 2:32 pm                      MDMA and social anxiety/Ketamine

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## PRELIMINARY PROGRAM

*Boris Heifets, MD, PhD*

*Stanford University School of Medicine, Stanford, CA*

2:32 pm – 2:44 pm

Neuroimaging and connectivity and network analysis

*Robin Carhart Harris, MD*

*Imperial College London, London, UK*

2:44 pm – 3:56 pm

Neuropharmacology

*Katrin Preller, PhD*

*Yale School of Medicine, New Haven, CT*

3:56 pm – 3:20 pm

Moderated Discussion and Q&A

## Break

**3:20 pm – 3:30 pm**

## Concurrent Sessions

**3:30 pm – 4:30 pm**

### 1. Society for Anesthesia and Sleep Medicine (SASM) Sponsored Panel: Pediatric Tonsillectomy: To Breathe or Not to Breathe, that is the Painful Question

Moderator: *Raj Subramanyam, MBBS, MD, MS, Children's Hospital of Philadelphia, Philadelphia, PA*

3:30 pm – 3:42 pm

Obstructive sleep apnea: from metabolomics to “Humanomics” and back

*Olubukola Nafiu, MD, FRCA, MS*

*Nationwide Children's Hospital, Columbus, OH*

3:42 pm – 3:54 pm

Opioid sparing techniques for tonsillectomy

*Raj Subramanyam, MBBS, MD, MS*

*Children's Hospital of Philadelphia, Philadelphia, PA*

3:54 pm – 4:06 pm

Postop respiratory complication prediction during tonsillectomy with & without prior sleep studies

*Lisa Elden, MD, FRCPC*

*Children's Hospital of Philadelphia, Philadelphia, PA*

4:06 pm – 4:18 pm

Measures to improve perioperative airway management in obstructive sleep apnea patients

*Kimmo Murto, FRCPC*

*CHEO Hospital, Ottawa, Ontario*

4:18 pm – 4:30 pm

Q&A



Session designated for ABA MOCA® Patient Safety CME Credit

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## PRELIMINARY PROGRAM

### 2. Review Course Lecture: Machine Learning for Anesthesiologists 101

3:30 pm – 4:30 pm *Hannah Lonsdale, MBChB, Johns Hopkins University, Baltimore, MD*

### 3. Panel: Socioeconomics and Outcomes in Healthcare with Focus on COVID

Moderator: *Brigid Flynn, MD, University of Kansas, Kansas City, MO*

3:30 pm – 3:40 pm Socioeconomic Position and Healthcare  
*Elizabeth Cotter, MD, University of Kansas, Kansas City, MO*

3:40 pm – 3:50 pm SARS-CoV2 Infection and Socioeconomic Position  
*Ibukunoluwa Adeleke, MD, Northwestern University, Chicago, IL*

3:50 pm – 4:00 pm COVID19, Pregnancy, Children and Socioeconomic Position  
*Brent Kidd, MD, University of Kansas, Kansas City, MO*

4:00 pm – 4:10 pm Geography and COVID  
*Vivek Moitra, MD, Columbia University Medical Center, New York, NY*

4:10 pm – 4:30 pm Moderated Discussion and Q&A

### 4. Early-Stage Anesthesiology Scholars (eSAS) Sponsored Panel: AKI from Bench to Bedside: Hopeless Endeavor or Hopeful Progress?

Moderator: *Jamie Privratsky, MD, PhD, Duke University, Durham, NC*

3:30 pm – 3:45 pm Immune system modulation for critical illness-associated AKI  
*Jamie Privratsky, MD, PhD  
Duke University, Durham, NC*

3:45 pm – 4:00 pm Bridging the gap between the bench and the bedside: developing lipoprotein-based therapeutics to pre  
*Loren Smith, MD, PhD  
Vanderbilt University Medical Center, Nashville, TN*

4:00 pm – 4:15 pm Recent clinical trials and acute kidney injury: what we have learned and where we are headed  
*Marcos Lopez, MD, MS  
Vanderbilt University Medical Center, Nashville, TN*

4:15 pm – 4:30 pm Q&A

### 5. Symposium: Immune Health in Surgery and Critical Care – Challenges and Novel Opportunities

Moderator: *Martin Angst, MD, Stanford University School of Medicine, Stanford, CA*

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## PRELIMINARY PROGRAM

1:10 pm – 1:22 pm      The Surgical Immune Response – How Do We Measure It and What Does It Tell Us in Perioperative Care?  
*Brice Gaudilliere, MD, PhD*  
*Stanford University School of Medicine, Stanford, CA*

1:22 pm – 1:34 pm      Onco-anesthesia – Do Anesthetic Choices Influence Outcomes in Cancer Surgery?  
*Tom Wall, MD*  
*University College Dublin, Dublin, Ireland*

1:34 pm – 1:46 pm      Biological Determinants in Critical Illness – A Path towards Individualized Patient Care in the ICU?  
*Philip Efron, MD*  
*University of Florida, Gainesville, FL*

1:46 pm – 1:58 pm      Biological Determinants of Wound Healing – What are Modifiable Factors in Perioperative Medicine?  
*Sashwati Roy, PhD*  
*Indiana University School of Medicine, Indianapolis, IN*

1:58 pm – 2:10 pm      Q&A

### 6. Anesthesia Research Council (ARC) Update Moderator: TBD



1:00 pm – 2:00 pm      Introduction  
*Chas Emala, MD*  
*Columbia University Irving Medical Center, New York, NY*

1:15 pm – 2:00 pm      Title TBD  
*Chas Emala, MD*  
*Columbia University Irving Medical Center, New York, NY*

## Break

4:30 pm – 4:40 pm

## Campfire Session: Facilitate, Mediate or Negotiate: Do You Have the Skills to Successfully Engage in the Conversation?

4:40 pm – 5:40 pm

Moderator: *Elizabeth Duggan, MD, University of Alabama Birmingham, Birmingham, AL*

*Elizabeth W Duggan, MD, University of Alabama Birmingham, Birmingham, AL*  
*Lauren Hill, MBA, Columbia University Medical Center, New York, NY*  
*Caitlin D Sutton, MD, Baylor College of Medicine, Houston, TX*



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## PRELIMINARY PROGRAM

*Kathy Rogers, JD, Emory University School of Law, Atlanta, GA*

Networking Opportunity/Meet the Experts Sessions

**5:45 pm – 7:00 pm**

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## PRELIMINARY PROGRAM

Sunday, May 16, 2021

### Kosaka Best Abstract Award Session

**10:30 am - 12:00 pm**

Moderators: *Michael S. Avidan, MBBCh, Washington University in St. Louis, St. Louis, Missouri, Beverley A. Orser, MD, PhD, University of Toronto Faculty of Medicine, Toronto, ON, Canada, Hiroshi Otake, MD, MBA, PhD, Showa University Hospital, Shinagawa-ku, Tokyo, Japan*

10:30 am – 10:35 am	Introduction
10:35 am – 10:43 am	Top Finalist - Basic Science Research Oral Presentation
10:43 am – 10:51 am	Top Finalist - Basic Science Research Oral Presentation
10:51 am – 10:59 am	Top Finalist - Basic Science Research Oral Presentation
10:59 am – 11:07 am	Top Finalist - Clinical Research Oral Presentation
11:07 am – 11:15 am	Top Finalist - Clinical Research Oral Presentation
11:15 am – 11:23 am	Top Finalist - Clinical Research Oral Presentation
11:23 am – 11:31 am	Top Finalist - Scholars Oral Presentation
11:31 am – 11:39 am	Top Finalist - Scholars Oral Presentation
11:39 am – 11:47 am	Top Finalist - Scholars Oral Presentation
11:47 am – 11:55 am	Judges Deliberate
11:55 am – 12:00 am	Winners Announced and Closing Statement

### World Federation of Societies of Anaesthesiologists (WFSA) Sponsored Symposium: Evidence in the Era of Distrust: Maintaining Scientific Honesty While Remaining Socially Relevant

**12:00 pm – 1:00 pm**

Moderator: *Adrian Gelb, MB, University of California San Francisco, San Francisco, CA and Davy Cheng, MD MSc, FRCPC, FCAHS, CCPE, Western University London Health Sciences Centre, London, Ontario*

12:00 pm – 12:15 pm	How Can We Be Evidence-Based in the Face of Evidence Reversals, Over-Hype, and Research Misconduct <i>Janet Martin, MSc (HTA&amp;M), PharmD Western University, London, Ontario</i>
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## PRELIMINARY PROGRAM

12:15 pm – 12:30 pm Ethical, Cultural, and Practical Challenges of Developing & Implementing Global Anesthesia Research  
*Angela Enright, OC, MB, FRCPC*  
*University of British Columbia, Victoria, British Columbia*

12:30 pm – 12:45 pm Shared Decision Making in the Perioperative Setting: A Complex Multi-Faceted Construct  
*Hilary Grocott, MD FRCPC*  
*University of Manitoba, Winnipeg, Manitoba*

12:45 pm – 1:00 pm Q&A

### Break

**1:00 pm – 1:10 pm**

### Concurrent Sessions

1:10 pm – 2:10 pm

#### 1. Symposium: Wellness and Resilience

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

1:10 pm – 1:35 pm Science of Wellness, Pathophysiology of Stress  
*Afton Hassett, Psy.D*  
*University of Michigan, Ann Arbor, MI*

1:35 pm – 2:00 pm Structural Aspects of Wellness in Institutions  
*Tait Shanafelt, MD*  
*Stanford Medicine WellMD Center, Stanford, CA*

2:00 pm – 2:10 pm Moderated Discussion and Q&A

#### 2. Panel: Futility in Critical Care: What, When and How?

Moderator: *Robert Sladen, MBChB, FCCM, Columbia University Medical Center, New York, NY*

1:10 pm – 1:25 pm What is Futility?  
*Kenneth Prager, MD*  
*Columbia University Medical Center, New York, NY*

1:25 pm – 1:40 pm It's a Bridge to No Recovery - Now What  
*Teresa Mulaikal, MD*  
*Columbia University Medical Center, New York, NY*

1:40 pm – 1:55 pm Is It Ever Too Early to Consult Palliative Care?

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## PRELIMINARY PROGRAM

Shunichi Nakagawa, MD  
*Columbia University Medical Center, New York, NY*

1:55 pm – 2:10 pm Q&A


3. Liver Intensive Care Group of Europe (LICAGE), Society for the Advancement of Transplant Anesthesia (SATA) and International Liver Transplantation Society (ILTS) Sponsored Panel: Lessons from Transplant Anesthesia for the Rest of Us: Coagulation, Perfusion and Liver Function  
*Moderator: Fuat Saner, MD, University Duisburg, Essen, Germany*

1:10 pm – 1:25 pm New models of coagulation and hemostasis: does it affect my transfusion practice?  
*Gebhard Wagener, MD  
Columbia University Medical Center, New York, NY*

1:25 pm – 1:40 pm How to assess organ perfusion: pressure is not everything  
*Ahmed Mohamed Mukhtar, MD  
University of Cairo, Cairo, Egypt*

1:40 pm – 1:55 pm My patient with liver disease is undergoing surgery. Should I proceed?  
*Dmitri Bezinover, MD, PhD  
Penn State Hershey Medical Center, Hershey, PA*

1:55 pm – 2:10 pm Q&A

4. International Society for the Perioperative Care of the Obese Patient (ISPCOP) Sponsored Review Course Lecture: Acute Pain Management in Morbid Obesity - Controversies and Conundrums! 

1:10 pm – 2:10 pm *Naveen Eipe, MD, The Ottawa Hospital, Ottawa, Ontario*

5. Early-Stage Anesthesiology Scholars (eSAS) Session: Going Up: Early Stage Anesthesiology Scholars Rapid-Fire Showcase  
*Moderator: Aaron Norris, MD, PhD, Washington University School of Medicine, St. Louis, MO*

1:10 pm – 1:15 pm *Broc Burke, MD, PhD  
Washington University School of Medicine, St. Louis, MO*

1:15 pm – 1:20 pm *Erica Langnas, MD  
University of California San Francisco, San Francisco, CA*

1:20 pm – 1:25 pm *Loren Smith, MD, PhD  
Vanderbilt University Medical Center, Nashville, TN*

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## PRELIMINARY PROGRAM

1:25 pm – 1:30 pm	<i>Michael Devinney, Jr., MD, PhD</i> <i>Duke University School of Medicine, Durham, NC</i>
1:30 pm – 1:35 pm	<i>Victoria Bedell, MD, PhD</i> <i>Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA</i>
1:35 pm – 1:40 pm	<i>Brittney Williams, MD</i> <i>University of Maryland School of Medicine, Baltimore, MD</i>
1:40 pm – 1:45 pm	<i>Mitra Heshmati, MD, PhD</i> <i>University of Washington, Seattle, WA</i>
1:45 pm – 1:50 pm	<i>Allison Janda, MD</i> <i>University of Michigan, Ann Arbor, MI</i>
1:50 pm – 1:55 pm	<i>James Kahn, MD</i> <i>Mount Sinai Hospital, Toronto, Ontario, Canada</i>
1:55 pm – 2:10 pm	Q&A

### 6. Panel: Visualizing Pain: From Mouse to Human

Moderator: *Shiqian Shen, Massachusetts General Hospital, Charlestown, MA*

1:10 pm – 1:25 pm	A novel animal pain model with distinct behavior <i>Norman Taylor, MD, PhD</i> <i>University of Utah, Salt Lake City, UT</i>
1:25 pm – 1:40 pm	Imaging neuronal activities in animal pain models <i>Guang Yang, PhD</i> <i>Columbia University, New York, NY</i>
1:40 pm – 1:55 pm	Imaging humans with chronic pain <i>Hsiao-Ying Wey, PhD</i> <i>Massachusetts General Hospital, Boston, MA</i>
1:55 pm – 2:10 pm	Q&A

## Break

**2:10 pm – 2:20 pm**

## Anesthesiology Response to COVID Symposium

 Session designated for ABA MOCA® Patient Safety CME Credit

# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

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## PRELIMINARY PROGRAM

**2:20 pm – 3:20 pm**

Break

**3:20 pm – 3:30 pm**

### Concurrent Sessions

**3:30 pm – 4:30 pm**

1. Review Course Lecture: Bad Heart-Bad Lungs: How Ventilation in ARDS Impacts Patients with Marginal Right and Left Ventricular Function 

3:30 pm – 4:30 pm

*Aranya Bagchi, MD, Harvard Medical School, Boston, MA*

2. *Anesthesia & Analgesia* Sponsored Symposium: Perioperative Outcomes: Current Evidence and Future Priorities

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

3:30 pm – 3:45 pm

Perioperative Outcomes: Shock

*Judith Hellman, MD*

*University of California San Francisco, San Francisco, CA*

3:45 pm – 4:00 pm

Perioperative Outcomes: British Journal of Anesthesia

*Hugh Hemmings, MD, PhD, FRCA*

*Weill Cornell Medical College, New York, NY*

4:00 pm – 4:15 pm

Perioperative Outcomes: Obstetrics & Gynecology

*John R. Fischer, MD, FACOG*

*University of Minnesota, Minneapolis, MN*

4:15 pm – 4:30 pm


Perioperative Outcomes: Anesthesia & Analgesia

*Paloma Toledo, MD, MPH*

*Northwestern University, Chicago, IL*

4:30 pm – 4:45 pm

Q&A

3. Panel: Frailty and Perioperative Care: Assessment, Optimization, Outcomes and Shared Decision Making 

Moderator: *Daniel Mclsaac, MD, MPH, FRCPC, University of Ottawa, Ottawa, Ontario*

3:30 pm – 3:42 pm

Perioperative Frailty-The why and how of adverse outcomes

*Daniel Mclsaac, MD, MPH, FRCPC*

*University of Ottawa, Ottawa, Ontario*



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## PRELIMINARY PROGRAM

3:42 pm – 3:54 pm      Preoperative frailty assessment-an evidence-based approach  
*Sylvie Aucoin, DM, MSc, FRCPC*  
*University of Ottawa, Ottawa, Ontario*

3:54 pm – 4:06 pm      Evidence-based optimization of surgical patients with frailty  
*David MacDonald, MD, FRCPC*  
*University of Ottawa, Ottawa, Ontario*

4:06 pm – 4:18 pm      Shared decision making for vulnerable patients before surgery  
*Laura Boland, MSc, PhD(c)*  
*University of Ottawa, Ottawa, Ontario*

4:18 pm – 4:30 pm      Q&A

#### 4. American Society of Anesthesiologists (ASA) Sponsored Campfire Session: Incorporating Diversity and Inclusion in Anesthesiology programs - Residents and Faculty

Moderator: *Tracey Straker, MD, MS, MPH, FASA, Montefiore Medical Center, Bronx, NY*

3:30 pm – 3:35 pm      Introduction/Topic TBD  
*Tracey Straker, MD, MS, MPH, FASA, Montefiore Medical Center, Bronx, NY*

3:35 pm – 3:38 pm      Topic TBD  
*Valerie Armstead, MD, Temple University Lewis Katz School of Medicine, Philadelphia, PA*

3:38 pm – 3:41 pm      Topic TBD  
*Alexandra Bastien, MD, Montefiore Medical Center, Bronx, NY*

3:41 pm – 3:44 pm      Topic TBD  
*Vilma Joseph, MD, MPH, Albert Einstein School of Medicine, Bronx, NY*

3:44 pm – 4:30 pm      Discussion with Audience Participation

#### 5. Panel: To study the Underlying Mechanism of Postoperative Delirium: Establishment of Clinically Relevant Animal Models

Moderator: *Zhongcong Xie, MD, PhD, Massachusetts General Hospital, Boston, MA*

3:30 pm – 3:45 pm      Opportunities and challenges: preclinical studies on postoperative delirium  
*Deborah Culley, MD*  
*Brigham and Women's Hospital, Boston, MA*

3:45 pm – 4:00 pm      Animal models for or animal models of  
*Mark Baxter, PhD*  
*Icahn School of Medicine at Mount Sinai, New York, NY*

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## PRELIMINARY PROGRAM

4:00 pm – 4:15 pm      Animal study of delirium: can we really do it?  
*Zhongcong Xie, MD, PhD*  
*Massachusetts General Hospital, Boston, MA*

4:15 pm – 4:30 pm      Q&A

### Break

**4:30 pm – 4:40 pm**

### Diversity: Healthcare Equity and Disparities of Care Symposium

**4:40 pm – 5:40 pm**

### Closing Remarks

**5:40 pm – 5:45 pm**

### Evening Networking Opportunity/Meet the Experts Sessions

**5:45 – 7:00 pm**