



The 3rd **Acute Kidney Injury: From Bench to Bedside** Conference

Sunday, May 4 – Wednesday, May 7, 2025
Lansdowne Resort, Leesburg, VA

The third Acute Kidney Injury: From Bench to Bedside Conference will focus on **Artificial Intelligence in AKI Research**. Hosted by the American Society of Nephrology (ASN), this four-day conference promotes the direct exchange of ideas across the clinical and basic science AKI research communities in academia and industry. The conference also serves as a focal point to integrate the basic science of AKI with clinical research, the latter focusing both on clinical trials, clinical biomarkers, and human subjects research. A half-day workshop on Wednesday, May 7 will be dedicated to trainees. This conference will attract clinical and basic scientists from academia, and investigators and leaders from companies involved in AKI research from across the globe.

Anticipated participants: 75

Faculty: 34

Conference Chairs

Mark de Caestecker, MBBS, PhD
Vanderbilt University Medical Center

Kelly Hyndman, PhD
University of Alabama at Birmingham

Leah Siskind, PhD
University of Louisville

Tentative Agenda and Faculty

Sunday, May 4

Welcome Reception, Dinner, and Keynote Speaker (5-8 p.m.)

- Past, Present, and Future of Big Data in AKI Research – *Benjamin Humphreys, MD, PhD, Washington University, St. Louis*

Monday, May 5

Session 1: Human Genetics and Transcriptional Networks (8-10 a.m.)

- Predictive Models for AKI – *Girish Nadkarni, MD, MPH, Mount Sinai*
- Transcriptional Networks in Human Kidney Diseases – *Jennifer Schaub, MD, University of Michigan*
- Selected short talks by trainees/junior faculty

Session 2: Clinical Trials and Biomarker Discovery – Part 1 (10:30 a.m. – 1 p.m.)

- Biomarker Discovery – *Joseph Bonventre, MD, PhD, Brigham and Women's Hospital*
- Clinical Development of AKI Biomarkers – *John Kellum, MD, Spectral*
- Functional Biomarkers of Tubular Injury – *Navjot Pabla, PhD, Ohio State University*
- Monitoring GFR in Real Time on the ICU – *Stuart Goldstein, MD, Cincinnati Children's Hospital*
- Selected short talks by trainees/junior faculty

Session 3: Disease Models – Part 1 (2-4 p.m.)

- Immune Cells and Kidney Organoids – *Jack Song, PhD, University of Alabama*
- 3D Printing and Vascularization of Human Kidney Organoids – *Jennifer Lewis, ScD, Harvard University*
- Mitochondrial Therapeutics in AKI – *Amandeep Bajwa, PhD, University of Tennessee, Memphis*
- Aging and AKI – *Monica Chang-Panesso, MD, Washington University*
- Selected short talks by trainees/junior faculty

Monday, May 5 (cont.)

Session 4: Patient Advocacy (4:30-6 p.m.)

- Advancing Health Equity for Kidney Diseases – *Deidra Crews, MD, ScM, John's Hopkins*
- My Personal Journey with AKI – *Leslie Meigs-Torres, LifeGift, Patient Advocate*
- Health Inequities in Kidney Transplantation: A Personal Story – *Ken Sutha, MD, PhD, Stanford University*

Poster Session (7:30-10 p.m.)

Tuesday, May 6

Session 5: Clinical Trials and Drug Discovery – Part 2 (8-10 a.m.)

- Coordinating Clinical Trials in the ICU – *Kathleen Liu, MD, PhD, University of California San Francisco*
- Experiences with AKI Clinical Trial Design – *Sudharshan Hebbar, MD, Calcimetics*
- Regulatory Requirements – *Rekha Kambhampati, MD, MHS, FDA (CDER)*
- Pragmatic Trials in Nephrology – *Laura Dember, MD, University of Pennsylvania*
- Selected short talks by trainees/junior faculty

Session 6: Highly Dimensional Image Analysis (10:30-1 p.m.)

- Using Machine Learning for Image Analysis – *Yuankai Huo, PhD, Vanderbilt University*
- Quantitative 3D Image Analysis of the Kidneys – *Chetan Poudel, PhD, University of Washington*
- Computational Analysis of Cellular Neighborhoods in Cancer – *John Hickey, PhD, Duke University*
- Spatial Transcriptomics of the Kidneys – *Benjamin Humphreys, MD, PhD, Washington University, St. Louis*
- Selected short talks by trainees/junior faculty

Industry Spotlight (1:15-2 p.m.)

Free Time (2-5 p.m.)

Session 7: A Roundtable Discussion about Clinical Trials in AKI (5-6 p.m.)

Chair: *John Kellum, MD, Spectral*

Panelists:

- *Aliza Thompson, MD, MS, FDA (CDER)*
- *Ronny Renfurm, MD, MBA, Novartis*
- *Nicholas King, MS, Critical Path Institute (C-Path)*

Dinner and Reception (6:30-10 p.m.)

Wednesday, May 7

Session 8: Interrogating Human Disease (8-10 a.m.)

- Using Machine Learning for Molecular Phenotyping in the ICU – *Pratik Sinha, MD, PhD, Washington University*
- Integrating Highly Dimensional Clinical and Molecular Data in the Kidney for KPMP – *Matthias Kretzler, MD, University of Michigan*
- Selected short talks by trainees/junior faculty

Session 9: Disease Models – Part 2 (10:30 a.m. – 1 p.m.)

- Failed Repair after AKI – *Shayna Bradford, PhD, Northwestern University*
- Nerve-Kidney Interactions in AKI – *Mark Okusa, MD, University of Virginia*
- Cardiorenal Syndromes – *Michael Hutchens, MD, MA, Oregon Health Sciences University*
- Large Animal Models of Trauma-Associated AKI – *David Burmeister, PhD, Uniformed Services University*
- Selected talks by trainees/junior faculty

Workforce Development Program for Trainees

Wednesday, May 7 (1-7 p.m.)

Lunch with Program Faculty (1-2 p.m.)

Session 1: Mentoring, Supporting, and Developing Diversity in Science (2-2:45 p.m.)

Chair: *Deidra Crews, MD, ScM, Johns Hopkins University School of Medicine*

Discussion facilitators:

- *Shayna Bradford, PhD, Northwestern University*
- *Amandeep Bajwa, PhD, University of Tennessee, Memphis*

Session 2: Writing and Publishing: Selling Your Science and Other Insider Tricks (3-3:45 p.m.)

Chair: *Ellen Carney, PhD, Nature Nephrology Reviews*

Discussion facilitators:

- *Benjamin Humphreys, MD, PhD, Washington University, St. Louis*
- *Leslie Meigs-Torres, LifeGift, Patient Advocate*

Session 3: Roundtable Discussions (4-4:30 p.m.) - choice of one topic

Topic 1: Non-Academic Careers in Science

Panelists:

- *Rekha Kambhampati, MD, MHS, FDA (CDER)*
- *Ronny Renfurm, MD, MBA, Novartis*
- *Sudharshan Hebbar, MD, Calcimetals*

Topic 2: Collaborating with Industry

Panelists:

- *John Kellum, MD, Spectral*
- *Joseph Bonventre, MD, PhD, Brigham and Women's Hospital*
- *Stuart Goldstein, MD, Cincinnati Children's Hospital*

Session 4: Imposter Syndrome (4:45-5:30 p.m.)

Chair: *Maureen Gannon, PhD, Vanderbilt University Medical Center*

Discussion facilitators:

- *Leah Siskind, PhD, University of Louisville*
- *Kelly Hyndman, PhD, University of Alabama at Birmingham*

Session 5: Assembling a Research Group: Hiring, Recognizing Talent, and Mentoring (5:45-6:30 p.m.)

Chair: *Benjamin Humphreys, MD, PhD, Washington University School of Medicine, St. Louis*

Discussion facilitators:

- *Mark Okusa, MD, University of Virginia*
- *Kathleen Liu, MD, PhD, University of California San Francisco*

Outing and Dinner with trainees and program faculty (7-10 p.m.)

Corporate Support

ASN is actively seeking industry partners to support the conference. Support levels and benefits include:

\$10,000+

- Linked company logo on the ASN Bench to Bedside web page
- Company acknowledgement, including logo, included:
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- One (1) complimentary registration to the conference
- Ability to provide one handout to attendees onsite. Handouts will be placed on a designated table onsite.

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