



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

Sunday, May 4 – Wednesday, May 7, 2025

Lansdowne Resort, Leesburg, VA

Conference Co-Chairs

Mark de Caestecker, MBBS, PhD, Vanderbilt University Medical Center

Kelly Hyndman, PhD, University of Alabama at Birmingham

Leah Siskind, PhD, University of Louisville

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

Breakfast (7-8 a.m.)

Session 1: Human Genetics and Transcriptional Networks (8-9:50 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

Break (9:50-10:20 a.m.)

Session 2: Clinical Trials and Biomarker Discovery – Part 1 (10:20 a.m. – 12:40 p.m.)

- Biomarker Discovery – *Joseph Bonventre, MD, PhD, Brigham and Women's Hospital*
- Use of Biomarkers in Interventional Trials for Sepsis and AKI – *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

Lunch (12:40-2 p.m.)

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

- Immune Cells and Kidney Organoids – *Jack Song, PhD, University of Alabama*
- Fish and Organoids: Comparative Insights into AKI – *Neil Hukriede, PhD, University of Pittsburgh*
- 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

Break (4-4:30 p.m.)

Session 4: Patient Advocacy (4:30-5:45 p.m.)

- Advancing Health Equity for Kidney Diseases – *Deidra Crews, MD, ScM, Johns Hopkins University*
- 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*

Dinner (6-7:30 p.m.)

Poster Session with Refreshments (7:30-9 p.m.)

Tuesday, May 6

Breakfast (7-8 a.m.)

Posters available for viewing (8 a.m. - 6 p.m.)

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 – *Sudarshan Hebbar, MD, CalciMedica, Inc.*
- 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

Break (10-10:30 a.m.)

Session 6: Highly Dimensional Image Analysis (10:30 a.m. - 12:50 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

Boxed Lunches and Free Time (12:50-5 p.m.)

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

Chair: *John Kellum, MD, Spectral*

Panelists:

- *Nicholas King, MS, Critical Path Institute (C-Path)*
- *Aliza Thompson, MD, MS, FDA (CDER)*
- *Olivier van Till, MD, PhD, PharmMed, Novartis*

Reception and Dinner (6-9 p.m.)

Wednesday, May 7 (7 a.m. – 1 p.m.)

Breakfast (7-8 a.m.)

Session 8: Interrogating Human Disease (8-9:50 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

Break (9:50-10:20 a.m.)

Session 9: Disease Models – Part 2 (10:20 a.m. – 12:40 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

Boxed Lunches and Departures (12:40 p.m.)

Workforce Development Program for Trainees and Junior Faculty

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

Lunch with Conference 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*

Discussion facilitators:

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

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

- *Sudarshan Hebbar, MD, CalciMedica, Inc.*
- *Rekha Kambhampati, MD, MHS, FDA (CDER)*
- *Olivier van Till, MD, PhD, PharmMed, Novartis*

Topic 2: Collaborating with Industry Panelists

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

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

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

Discussion facilitators:

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

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:

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

Dinner and Networking with Conference Faculty (7-9 p.m.)