



13th Annual Acute Kidney Injury Symposium
Thursday October 12, 2023
8:30 am – 3:15 pm
Starzl Biomedical Science Tower Conference Room S120
200 Lothrop Street, Pittsburgh, PA 15261

Planning Committee

Raghavan Murugan, MD	Program for Critical Care Nephrology, CRISMA, Department of Critical Care Medicine
Rod Tan, MD, PhD	Pittsburgh Center for Kidney Research-O'Brien Center, Renal-Electrolyte Division
Martin Oberbarnscheidt, MD	Thomas E. Starzl Transplantation Institute, Department of Surgery
Jacqueline Ho, MD	UPMC Children's Hospital of Pittsburgh, Division of Nephrology

Symposium Purpose: To continue to foster cross-campus research collaboration on acute kidney injury and further AKI awareness, education, and advocacy.

8:30-9:00am **Registration/Breakfast**

8:50-9:00 **Welcome** Drs. Murugan, Tan, Oberbarnscheidt, and Ho

Session I Scientific Presentations

9:00 – 9:15 Advances in the Treatment of Children Receiving CRRT
Dana Fuhrman, DO, MS

9:15 – 9:30 Multi-hospital Electronic Decision Support for Drug-Associated Acute Kidney Injury (MEN-D-AKI)
Sandy Kane-Gill, PharmD

9:30 – 9:45 ROS Scavenger JP4-039 Mitigates Cisplatin-induced AKI
Rannar Airik, PhD

9:45 – 10:00 Vascularizing human kidney organoids
Neil Hukriede, PhD

10:00 – 10:15 IL-17 Signaling in Autoimmune Glomerulonephritis
Sarah Gaffen, PhD

10:15 – 10:25 Discussion/Q&A Moderator: Martin Oberbarnscheidt, MD

10:25 – 10:35 **Break**

Session 2 Abstract Presentations

10:35 – 10:40 Introduction Martin Oberbarnscheidt, MD

10:40 – 10:50 Persistent Acute Kidney Injury in Non-renal Solid Organ Transplant Recipients: An Updated Meta-Analysis
Ivan Saraiva, MD, MSc

10:50 – 11:00 Increased Glucose Tolerance and Sex-Dependent Renal Disease in Megalin (Lrp2) Knockout Mice on Western Diet
Elynn B. Youm, BA

11:00 – 11:10 Direct Effects of SGLT2 Inhibitors on Proximal Tubule Function
Wafaa Albalawy, MS



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11:10 – 11:20	Persistent AKI in the Critically Ill Patients: Occurrence, Risk Factors and Association with Outcome <i>Syed A. Zaidi, MD, MS</i>
11:20 – 11:30	Deficiency of Long-Chain Acyl-CoA Dehydrogenase (LCAD) Regulates Fatty Acid Oxidation to Protect Against AKI <i>Akira Oda, MD, PhD</i>
11:30 – 11:40	Discussion/Q&A Moderator: Martin Oberbarnscheidt, MD
11:40 - Noon	Abstract Voting/Lunch
Session 3	Keynote Addresses
Noon-12:05	Introduction of Michael P. Hutchens, MD by Rod Tan, MD
12:05 -12:35	Keynote Address: “The kidney keeps the score: mechanisms of lasting harm from AKI” <i>Michael P. Hutchens, MD, MA</i> <i>Professor of Anesthesiology and Perioperative Medicine</i> <i>Oregon Health & Science University</i>
12:35-12:45	Discussion/Q&A Moderator: Rod Tan, MD
12:45-12:50	Introduction of Ravindra Mehta, MD by Raghavan Murugan, MD
12:50-1:20	Keynote Address: “Value Based care for AKI: Are we ready?” <i>Ravindra Mehta, MD</i> <i>Professor of Medicine, Division of Nephrology-Hypertension</i> <i>University of California San Diego School of Medicine</i>
1:20-1:30	Discussion/Q&A Moderator: Raghavan Murugan, MD
1:30-1:40	Break
Session 4	Scientific Presentations
1:40-1:55	Recovery of Filtered Proteins Along the Kidney Proximal Tubule <i>Ora Weisz, PhD</i>
1:55-2:10	Ex Vivo Expanded Regulatory T Cell Infusion and Organ Allograft Injury in Nonhuman Primates <i>Mohamed Ezzelarab, MB</i>
2:10-2:25	A Novel Model for Endoplasmic Reticulum Stress and Kidney Injury <i>Teresa Buck, PhD</i>
2:25-2:40	Budding Yeast, a Window into Autosomal Dominant Polycystic Kidney Disease <i>Chris Guerriero, PhD</i>
2:40-2:55	Mineralocorticoid Receptor-Independent Activation of ENaC in a Mouse Model of Cholestatic Liver Disease <i>Ossama Kashlan, PhD</i>



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2:55-3:05	Discussion/ Q&A Moderator: Jacqueline Ho, MD
3:05-3:10	Announcement of Abstract Awards
3:10-3:15	Closing Remarks

Program Overview, Learning Objectives, Target Audience

This symposium will promote the clinical knowledge related to diagnosis and personalized treatment of acute kidney injury (AKI). It will help to improve the care of critically ill patients who develop or are at risk for AKI. It will also promote communication and collaboration among experts and specialists treating and researching acute kidney injury. The understanding of AKI and the effective strategies for developing, implementing, and performing protocols for managing the condition will be enhanced. The symposium is targeted for doctors, fellows, researchers, and professionals in the medical and research fields of critical care medicine, transplantation, nephrology, and the renal-electrolyte division. The symposium also serves as a platform to spread kidney awareness and to educate and share resources with patients and the community.

Faculty Listing

1. Rannar Airik, PhD – University of Pittsburgh; Department of Pediatrics, Assistant Professor of Pediatrics and Developmental Biology, Pittsburgh, PA
2. Wafaa Albalawy, MS – University of Pittsburgh; Department of Medicine, Division of Renal-Electrolyte, Graduate Student, Pittsburgh, PA
3. Teresa Buck, PhD – University of Pittsburgh; Department of Biological Sciences, Research Associate Professor, Pittsburgh, PA
4. Maria Delesio, ABA, AGS – University of Pittsburgh; Department of Medicine, Renal-Electrolyte Division, Administrative Assistant, Pittsburgh, PA
5. Mohamed Ezzelarab, MB – University of Pittsburgh; Department of Surgery, Research Associate Professor of Surgery, Pittsburgh, PA
6. Dana Fuhrman, DO, MS – University of Pittsburgh; Department of Critical Care Medicine, Associate Professor of Critical Care Medicine, Pittsburgh, PA
7. Sarah Gaffen, PhD – University of Pittsburgh; Department of Immunology, Gerald P. Rodnan Professor, Division of Rheumatology and Clinical Immunology, Pittsburgh, PA
8. Chris Guerriero, PhD – University of Pittsburgh; Department of Biological Sciences, Research Associate Professor, Pittsburgh, PA
9. Jacqueline Ho, MD – University of Pittsburgh; Department of Pediatrics, Associate Professor of Pediatrics, Pittsburgh, PA
10. Neil Hukriede, PhD – University of Pittsburgh; Department of Developmental Biology, Professor and Vice Chair of Developmental Biology, Pittsburgh, PA



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11. Michael P. Hutchens, MD, MA – Oregon Health & Science University, Professor of Anesthesiology and Perioperative Medicine
12. Sandy Kane-Gill, PharmD – University of Pittsburgh; School of Pharmacy, Professor of Pharmacy and Therapeutics, Pittsburgh, PA
13. Ossama Kashlan, PhD – University of Pittsburgh; Department of Medicine, Division of Renal-Electrolyte, Assistant Professor of Medicine, Pittsburgh, PA
14. Brandon McLaughlin, BA – University of Pittsburgh; Department of Critical Care Medicine, CRISMA Center, Academic Manager, Pittsburgh, PA
15. Ravindra Mehta, MD – University of California San Diego School of Medicine, Professor of Medicine, Division of Nephrology-Hypertension
16. Raghavan Murugan, MD, MS – University of Pittsburgh; Department of Critical Care Medicine, Program for Critical Care Nephrology, and CRISMA Center, Professor of Critical Care Medicine and Clinical & Translational Science Pittsburgh, PA
17. Karen Nieri, BA – University of Pittsburgh; Department of Critical Care Medicine, Academic Manager, Pittsburgh, PA
18. Amy Nye, BS – University of Pittsburgh, Thomas E. Starzl Transplantation Institute, Executive Administrator, Pittsburgh, PA
19. Martin Oberbarnscheidt, MD, PhD – University of Pittsburgh; Department of Surgery, Assistant Professor of Surgery, Pittsburgh, PA
20. Akira Oda, MD, PhD – University of Pittsburgh; Department of Pediatrics, Division of Nephrology, Children's Hospital of Pittsburgh, Pittsburgh, PA
21. Ivan Saraiva, MD, MSc – University of Pittsburgh; Department of Critical Care Medicine, Clinical Instructor of Critical Care Medicine and CRISMA Center T32 Postdoctoral Scholar, Pittsburgh, PA
22. Rod Tan, MD, PhD – University of Pittsburgh; Department of Medicine, Division of Renal-Electrolyte, Integrative Systems Biology, Assistant Professor of Medicine, Pittsburgh, PA
23. Kathleen VanDerWeele, AS – UPMC Children's Hospital of Pittsburgh; Division of Pediatric Nephrology, Fellowship Program Coordinator, Pittsburgh, PA
24. Ora Weisz, PhD – University of Pittsburgh; Department of Medicine, Division of Renal-Electrolyte, Professor of Medicine, Cell Biology, Clinical and Translational Science, Pittsburgh, PA
25. Elynna B. Youm, BA – University of Pittsburgh; Department of Medicine, Division of Renal-Electrolyte, Graduate Student, Pittsburgh, PA
26. Syed A. Zaidi, MD, MS – University of Pittsburgh; Department of Critical Care Medicine, 2nd Year Adult Internal Medicine Critical Care Fellow, Pittsburgh, PA



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Accreditation and credit designation:

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of 5.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

Faculty Disclosure

All individuals in a position to control the content of this education activity have disclosed all financial relationships with any companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

All of the relevant financial relationships for the individuals listed below have been mitigated:

1. Dr. Raghavan Murugan had grant/research support from Baxter inc. The financial relationship ended in June of 2022.
2. Dr. Sandy Kane-Gill is on the Executive Committee of the Society of Critical Care Medicine and has grant support from the Jewish Healthcare Society.
3. Dr. Mohamed Ezzelarab is a consultant for SAB Therapeutics.
4. Dr. Ravindra Mehta is a consultant for the following: Baxter, AM Pharma, Biomerieux, Mallinckrodt, GE Healthcare, Abiomed, NovaBiomed, Novartis, Renasym, Renibus, Alexxion, Guard, Fresenius, Spingotec.
5. Dr. Sarah Gaffen is a consultant for Trotana Pharmaceuticals.

No other members of the planning committee, speakers, presenters, authors, content reviewers and/or anyone else in a position to control the content of this education activity have relevant financial relationships with any companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

We gratefully acknowledge support from Baxter Healthcare Corp. for their educational grant.