

9th Annual Acute Kidney Injury Symposium
Thursday, October 31, 2019
9:00am – 3:30pm
Starzl Biomedical Science Tower Conference Room S120
200 Lothrop Street, Pittsburgh, PA 15261

Planning Committee:

John A. Kellum, MD	Center for Critical Care Nephrology, Dept of Critical Care Medicine
Thomas R. Kleyman, MD	Pittsburgh Center for Kidney Research – O’Brien Center Renal-Electrolyte Division, Department of Medicine
Fadi G. Lakkis, MD	Thomas E. Starzl Transplantation Institute, Department of Surgery
Carlton Bates, MD	Children’s Hospital of Pittsburgh, Division of Nephrology

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

Kidney Awareness: 10:30am – 2pm Visit the Kidney Education tables in the BST Lobby. Talk with educators and advocates. Free blood pressure/BMI screening. Take a Kidney Risk quiz. Free educational materials/brochures.

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

8:50-9:00 **Welcome** Drs. Bates, Kellum, Kleyman, Lakkis

Session I **Scientific Presentations**

9:00 – 9:15 Clinical Responses to Fatty Acid Nitroalkenes – Electrophilic Cysteine Proteome Modulators Currently in Phase 2 Trials for FSGS, PAH and Asthma Bruce Freeman

9:15 – 9:30 Enhancing Acute Kidney Injury Regeneration by Promoting Cellular Dedifferentiation Neil Hukriede

9:30 – 9:45 Early Warning Biomarkers for Acute Kidney Injury: Drug Management Considerations Sandra Kane-Gill

9:45 – 10:00 The Kidney Precision Medicine Project Paul Palevsky

10:00 – 10:15 Role of the Molecular Chaperone, GRP170, in Salt-Water Homeostasis and AKI Teresa Buck

10:15 – 10:25 Discussion/Moderator Thomas Kleyman

10:25 – 10:35 **Break**

Session 2 **Abstract Presentations (No CME credit awarded)**

10:35 – 10:40 Introduction Fadi Lakkis

10:40 – 10:50 #1

10:50 – 11:00 #2

11:00 – 11:10 #3

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11:10 – 11:20	#4	
11:20-11:30	#5	
11:30 – 11:40	Voting/Group Picture	
11:40-11:55	Lunch	
11:55 – Noon	Abstract Awards	
Session 3	Keynote Speakers	
	Introduction of Samir Parikh	John Kellum
Noon-12:25	Metabolic Determinants of AKI Resistance—PGC1a-NAD+	Samir Parikh
12:25-12:35	Q & A	
	Introduction of Anupam Agarwal	Thomas Kleyman
12:35-1:05	Heme Oxygenase-1 as a Protective Mechanism in AKI	Anupam Agarwal
1:05-1:15	Q & A	
1:15-1:30	Break	
Session 4	Scientific Presentations	
1:30-1:45	Net Ultrafiltration and Outcomes in Critically Ill	Raghavan Murugan
1:45-2:00	New Biomarkers for “Pre-AKI” and “Persistent AKI”	John Kellum
2:00-2:15	Acute Kidney Injury Immediate Post Kidney Transplantation: What We Know, What We Don’t Know and Where Should We Go?	Sundaram Hariharan
2:15-2:30	Activation of AMP-activated protein kinase (AMPK) during sepsis/inflammation improves survival by preserving cellular metabolic fitness	Hernando Gomez
2:30-2:40	Discussion/Moderator	Carl Bates
2:40-2:50	Break	
Session 5	Panel Presentation	
2:50-3:30	Kidney Research Updates	Drs. Bates, Kellum, Kleyman, Lakkis
3:30	Adjourn	

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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. Anupam Agarwal, MD – University of Alabama at Birmingham School of Medicine; Executive Vice Dean, Director, Division of Nephrology; Birmingham, AL
2. Carlton Bates, MD – University of Pittsburgh; Chief, Division of Nephrology; Children’s Hospital of Pittsburgh of UPMC; Pittsburgh, PA
3. Teresa Buck, MD – University of Pittsburgh; Research Associate Professor; Department of Biological Sciences; Pittsburgh, PA
4. Faye Cotton, BS – University of Pittsburgh; Project Coordinator; Pittsburgh, PA
5. Michele Elder, RN, BSN - University of Pittsburgh; Operations Manager; Pittsburgh, PA
6. Bruce Freeman, PhD – University of Pittsburgh; Irwin Fridovich Distinguished Professor and Chair; Department of Pharmacology and Chemical Biology; Pittsburgh, PA
7. Hernando Gomez, MD – University of Pittsburgh; Assistant Professor, Department of Critical Care Medicine; Faculty for Center for Critical Care Nephrology; Pittsburgh, PA
8. Sundaram Hariharan, MD – University of Pittsburgh; Professor of Medicine and Surgery; Medical Director of Kidney and Pancreas Transplantation; Thomas E Starzl Transplant Institute; Pittsburgh, PA
9. Neil Hukriede, PhD – University of Pittsburgh; Professor and Vice-Chair Department of Developmental Biology; Pittsburgh, PA
10. Sandra Kane-Gill, PharmD, MS, FCCM, FCCP – University of Pittsburgh; Associate Professor, Pharmacy and Therapeutics, School of Pharmacy; University of Pittsburgh Medical Center; Critical Care Medication Safety Officer, Department of Pharmacy; Pittsburgh, PA
11. John Kellum, MD, MCCM – University of Pittsburgh; Director of the Center for Critical Care Nephrology; Department of Critical Care Medicine; Vice Chair for Research, CRISMA; Pittsburgh, PA
12. Thomas Kleyman, MD – University of Pittsburgh; Chief, Renal-Electrolyte Division; Professor of Cell Biology, Professor of Pharmacology and Chemical Biology; Pittsburgh, PA
13. Fadi Lakkis, MD – University of Pittsburgh; Frank and Athena Sarris Chair in Transplantation Biology; Professor of Surgery, Immunology, and Medicine; Scientific Director, Thomas E. Starzl Transplantation Institute, Pittsburgh, PA

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14. Carmela Londino, MBA, MS – University of Pittsburgh; Program Administrator, Renal-Electrolyte Division; Department of Medicine; Pittsburgh, PA
15. Raghavan Murugan, MD – University of Pittsburgh; Associate Professor of Critical Care Medicine and Clinical & Translational Science; Center for Critical Care Nephrology, CRISMA Center; Department of Critical Care Medicine; University of Pittsburgh Medical Center; Magee-Women's Hospital, ICU Director & Chief of Critical Care Medicine; Director, Rapid Response Team; Pittsburgh, PA
16. Amy Nye, BS – University of Pittsburgh, Thomas E. Starzl Transplantation Institute, Executive Administrator; Pittsburgh, PA
17. Paul Palevsky, MD – University of Pittsburgh; Professor of Medicine; Renal-Electrolyte Division; Chief, Renal Section VA Pittsburgh Healthcare System; Pittsburgh, PA
18. Samir Parikh, MD - Associate Professor of Medicine; Division of Nephrology; Director, Center for Vascular Biology Research; Associate Vice Chair for Research; Beth Israel Deaconess; Harvard Medical School; Boston, MA

CME Accreditation and Designation Statement:

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

Physicians

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 4.5 *AMA PRA Category 1 CreditsTM*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Other health care professionals

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.

Disclaimer Statement:

The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by, the UPMC Center for Continuing Education in the Health Sciences, UPMC/University of Pittsburgh Medical Center or Affiliate and University of Pittsburgh School of Medicine. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgement when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses.

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Faculty Disclosure:

All individuals in a position to control the content of this education activity including members of the planning committee, speakers, presenters, authors, and/or content reviewers have disclosed all relevant financial relationships with any entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.

The following relevant financial relationships were disclosed:

1. Anupam Agarwal – Grant/Research Support: Sanofi/Genzyme; Consultant: Akebia, Reata, Angion, Dynamed; Stockholder: Goldilocks Therapeutics
2. Bruce Freeman – Stockholder: Complexa, Brainstage, Inc., Creegh Pharma, Inc.; Scientific Advisor: Complexa, Brainstage; CEO and President: Creegh Pharma
3. John Kellum – Grant/Research Support: Astute Medical, bioMerieux, Baxter; Consultant: Astute Medical, bioMerieux, Baxter
4. Tom Kleyman – Consultant: Relypsa, Inc.
5. Raghavan Murugan – Grant/Research Support: NIH, La Jolla, AM Pharma, Bioporto
6. Paul Palevsky – Grant/Research Support: Dascena
7. Samir Parikh – Grant/Research Support: Baxter; Consultant: Aerpio, Alkermes, Cytokinetics, Janssen, Hope Pharma, Astellas, Mission Therapeutics; Other: Equity in Raksana; Inventor on patent filing from BIDMC related to NAD+

No other planners, 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 to disclose.

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