



Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management

Sponsored by UAB/UCSD O'Brien Center for AKI Research

Tuesday, March 7, 2017 Manchester Grand Hyatt San Diego, California

This symposium immediately precedes the **22nd International CRRT Conference** at the same venue and offers an excellent opportunity to learn from and network with international experts in nephrology and critical care. **Online registration available at: www.crrtonline.com**

Acute Kidney Injury is a rapidly evolving area where several advances have been made in understanding the mechanisms and pathways of AKI and its effects on other organs. Recent identification of biomarkers has provided new tools and techniques to characterize this disorder. This pre-course will provide a comprehensive review of the most recent developments in the field and describe emerging knowledge from basic and translational research applicable to clinical care.

Full Day Symposium March 7, 2017 - 7:55am-5:30pm

On or before Jan. 19, 2017	Jan. 20 thru Feb. 16, 2017	Feb. 17 thru Mar. 10, 2017
\$270	\$290	\$310

AKI&CRRT 2017 Registrants receive a \$30 dollar discount - includes lunch, AM & PM breaks

AGENDA

7:55 am **Opening Remarks** Ravindra Mehta, MD

PLENARY 1 Molecules, Mechanisms and Targets

Co-Chairs: Anupam Agarwal, MD and Joseph Bonventre, MD

8:00-8:20 **Energy Metabolism and Renal Stress Resistance** - Samir Parikh

8:20-8:40 **Sickle Cell Disease: Renal Manifestations and Mechanisms** - Karl Nath

8:40-9:00 **Epigenetic Changes in AKI-CKd Transition** - Masaomi Nangaku

9:00-9:20 **Hypoxia, Energetics and Renal Hemodynamics** - Prabhleen Singh

9:20-9:40 **Function-blocking $\alpha\beta5$ and $\alpha\beta6$ Integrins Minimize Ischemic Kidney Injury** - Bruce Molitoris

9:40-10:00 **Discussion**

10:00-10:15 *Coffee Break*

PLENARY 2 Of Mice and Men: Harmonizing Human and Animal AKI

Co-Chairs: Bruce Molitoris MD and Paul Sanders, MD

10:15-10:35 **Sepsis Induced AKI: A Distinct Molecular Phenotype** - John Kellum

10:35-10:55 **Pericyte Biology and AKI/CKd Transition** - Ben Humphreys

10:55-11:15 **Improving Preclinical Study Design in AKI** - Mark de Caestecker

11:15-11:35 **Human Kidney Organoids and Their Use in Modeling Diseases** - Joseph Bonventre

11:35-11:55 **Remote Effects of Acute Kidney Injury** - Mathieu LeGrand

11:55-12:15 **Discussion**

12:15-1:15 pm *Lunch Hosted by Conference*

PLENARY 3 Bench to Bedside: Translating Discoveries to Clinical Care

Co-Chairs: Mitch Rosner MD and Claudio Ronco, MD

1:15-1:35 **Nonpharmacological – Biomechanical Approaches to Control Inflammation in AKI** - Mark Okusa

1:35-1:55 **Immune Cells in AKI and Repair** - Hamid Rabb

1:55-2:15 **Lymphocyte Function in Human AKI** - Marlies Ostermann

2:15-2:35 **Endothelial Derived Microparticles in AKI** - Vincenzo Cantallupi

2:35-2:55 **Vasopressin: A Novel Target for Prevention and Retardation of Kidney Disease** - Lise Bankir

2:55-3:15 **Discussion**

3:15-3:30 *Coffee Break*

PLENARY 4 Controversies in AKI

Co-Chairs: Paul Palevsky MD and Patrick Murray, MD

3:30-3:50 **AKI Adjudication: Do We Need It?** - Kathleen Liu

3:50-4:10 **Interventions to Prevent Peri-operative AKI** - Amit Garg

4:10-4:30 **The Economic Consequences of AKI** - Glenn Chertow

4:30-4:50 **Clinical Trial Endpoints in AKI: Report from the STEP Group** - Andrew Shaw

4:50-5:10 **Care of the AKI Survivor** - Ron Wald

5:10-5:30 **Discussion**

5:30 *Adjourn*

Registration: crrtonline.com