



# Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management

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

Tuesday, March 6, 2018 Manchester Grand Hyatt San Diego, California

This symposium immediately precedes the **23rd International AKI & 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](http://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 6, 2018 - 7:55am-5:30pm**

On or before Jan. 19, 2018	Jan. 20 thru Feb. 16, 2018	Feb. 17 thru Mar. 6, 2018
<b>\$270</b>	<b>\$290</b>	<b>\$310</b>

AKI&CRRT 2018 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 Prabhleen Singh, MD*

8:00-8:20 **HIF Signaling in AKI** - Volker Haase

8:20-8:40 **Cell Death Pathways in AKI** - Andreas Linkermann

8:40-9:00 **Iron and Innate Immunity in AKI: Promising Therapeutic Targets** - Swami Sundararaman

9:00-9:20 **Transcriptional Profiling Differentiates AKI Subtypes** - Jonathan Barasch

9:20-9:40 **Optogenetics in Understanding Mechanisms of AKI** - Mark Okusa

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

10:00-10:15 *Coffee Break*

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

*Co-Chairs: Paul Sanders, MD and Mark Okusa, MD*

10:15-10:35 **Assessing Tubular Function During Injury and Repair from AKI** - Volker Vallon

10:35-10:55 **Lung-kidney Cross-talk: The Role of Mitochondrial Dysfunction** - Laura Crotty-Alexander

10:55-11:15 **Sepsis Induced AKI: Does Basic Science Match the Clinical Spectrum** - John Kellum

11:15-11:35 **Genomic Determinants of AKI** - David Leaf

11:35-11:55 **Intestinal Microbiota in AKI** - Hamid Rabb

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 Kathleen Liu, MD*

1:15-1:35 **3D Imaging of Human Biopsies in AKI** - Pierre Dagher

1:35-1:55 **Micro-RNA Profile After Major Trauma and the Incidence of AKI and MOF** - John Prowle

1:55-2:15 **Urine Proteomic Analysis: A Viable Approach to Identify Biomarkers in AKI** - John Arthur

2:15-2:35 **Pre-implantation Kidney Biopsies as a Predictor for Delayed Graft Function** - Roslyn Mannon

2:35-2:55 **A Beta-HCG Derivative Modulates the Immune Response and Protects the Kidneys** - Peter Pickkers

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

3:15-3:30 *Coffee Break*

### PLENARY 4 Controversies in AKI

*Co-Chairs: Marlies Ostermann MD and Stuart Goldstein, MD*

3:30-3:50 **Determining Renal Reserve in AKI** - Claudio Ronco

3:50-4:10 **Do AKI Biomarker Trajectories Provide a Phenotype for AKI Prediction?** - Rajit Basu

4:10-4:30 **AKI in Real Time: Prediction, Prognostication, and Alerts** - Francis Perry Wilson

4:30-4:50 **Assessing Renal Recovery after AKI: Can Biomarkers Help?** - Zoltan Endre

4:50-5:10 **Clinical Trial Endpoints in AKI: What Should We Not Use?** - Paul Palevsky

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

5:30 *Adjourn*

**Registration: [crrtonline.com](http://crrtonline.com)**