



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

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

Tuesday, February 16, 2016 Manchester Grand Hyatt San Diego, California

This symposium immediately precedes the **21st 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](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 Tuesday, February 16 - 8:00am-5:30pm**

On or before  
Jan. 5, 2016

Jan. 6 thru  
Feb. 2, 2016

Feb. 3 thru  
Feb. 20, 2016

AKI&CRRT 2016 Registrants receive a \$30 dollar discount - includes lunch, AM & PM breaks

**\$260**

**\$280**

**\$300**

## AGENDA

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

### PLENARY 1 Molecules, Mechanisms and Targets

*Co-Chairs: Anupam Agarwal, MD and Zheng Dong, MD*

8:00-8:20 **TRPM2 Channels, Oxidant Stress and Ischemic AKI** - W. Brian Reeves

8:20-8:40 **Telomerase, Autophagy and Acute Kidney Injury** - Raymond Harris

8:40-9:00 **Tubular Transport in Acute Kidney Injury** - Volker Vallon

9:00-9:20 **Iron and Acute Kidney Injury** - David Leaf

9:20-9:40 **Sphingolipid Signaling and Kidney Disease Fibrosis: New Therapeutic Target** - 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: Raymond Harris MD and Mark Okusa, MD*

10:15-10:35 **Organ Cross Talk: Kidney Heart Interactions** - Kent Doi

10:35-10:55 **Macrophage Dynamics in AKI** - Gilbert Kinsey

10:55-11:15 **Models of AKI Leading to CKD** - Manjeri Venkatachalam

11:15-11:35 **microRNAs in the Pathogenesis and Diagnosis of AKI** - Zheng Dong

11:35-11:55 **Insights Into the Mechanisms of the AKI to CKD Continuum** - Motoko Yanagita

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: Jean Louis Vincent, MD and Claudio Ronco, MD*

1:15-1:35 **siRNA and Gene Delivery Approaches for Treating AKI** - Simon Atkinson

1:35-1:55 **Role of Complement in Acute Kidney Injury** - Joshua Thurman

1:55-2:15 **Lipoic Acid in the Prevention of AKI** - Peter McCullough

2:15-2:35 **Remote Ischemic Preconditioning: Bench to Bedside and Back** - John Kellum

2:35-2:55 **Mineralocorticoid Receptor Antagonism in AKI: A New Hope?** - Luis Juncos

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 **Frequency Bias: A New Limitation of Creatinine as an AKI Biomarker** - Francis Perry Wilson

3:50-4:10 **Community vs Hospital Acquired AKI: Do We Have the Metrics?** - David G. Warnock

4:10-4:30 **Oliguria and Biomarker for AKI? How Are They Confounded?** - Michael Joannidis

4:30-4:50 **Renal Stress Testing in AKI** - Lakhmir Chawla

4:50-5:10 **The Puzzle of Subclinical AKI** - Claudio Ronco

5:10-5:30 **Care Bundles in AKI Do They Work?** - Nicholas Selby

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

5:30 *Adjourn*