



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

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

Tuesday, February 17, 2015 Manchester Grand Hyatt San Diego, California

This symposium immediately precedes the **20th 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/conference](http://www.crrtonline.com/conference).**

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 17 - 8:00am-5:30pm**

CRRT 2015 Registrants receive a \$30 dollar discount - includes lunch, AM & PM breaks

On or before  
Jan. 5, 2015

**\$260.00**

Jan. 6 thru  
Feb. 2, 2015

**\$280**

Feb. 3 thru  
Feb. 20, 2015

**\$300**

## AGENDA

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

### PLENARY 1 Molecules, Mechanisms and Targets

*Co-Chairs: Anupam Agarwal, MD and Bruce Molitoris, MD*

8:00-8:20 **The Yin and Yang of AKI: Bioenergetic Failure or Conservation** - Hernando Gomez, MD

8:20-8:40 **Ferritin in AKI** - Subhashini Bolisetti, PhD

8:40-9:00 **Renal Oxygenation and Mitochondrial Function in Sepsis-Associated AKI** - Prabhleen Singh, MD

9:00-9:20 **Neuro Immune Control of AKI and Inflammation** - Mark Okusa, MD

9:20-9:40 **Gene Discovery for Different Subsets of AKI** - Jonathan Barasch, MD

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

10:00-10:15 *Coffee Break*

### PLENARY 2 Of Mice and Men: Harmonizing Human and Animal AKI: Results from ADQI 13

*Co-Chairs: Mitch Rosner MD and Mark Okusa, MD*

10:15-10:35 **Hemodynamics** - Can Ince, PhD

10:35-10:55 **Immunity, Inflammation** - Sunderaraman Swaminathan, MD

10:55-11:15 **Cellular and Molecular** - Anupam Agarwal, MD

11:15-11:35 **Progression** - David Basile, PhD

11:35-11:55 **Regeneration and Stem Cells** - Didier Portilla, MD

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: Didier Payen MD and Paul Palevsky, MD*

1:15-1:35 **Parenteral Angiotension II for Shock: Effects on Renal Function** - Lakhmir Chawla, MD

1:35-1:55 **Electrical Vagal Nerve Stimulation in Humans: Effects on the Immune Response** - Peter Pickkers, MD

1:55-2:15 **Genomic and Proteomic Characterization of AKI** - Prasad Devarajan, MD

2:15-2:35 **Detecting Drug Nephrotoxicity: The Kidney on a Chip** - Vishal Vaidya, PhD

2:35-2:55 **Urine Exosomes and Molecular Characterization of AKI** - Satish Rao, PhD

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

3:15-3:30 *Coffee Break*

### PLENARY 4 Controversies in AKI

*Co-Chairs: Claudio Ronco MD and Patrick Murray, MD*

3:30-3:50 **Timely Diagnosis of AKI: Kinetic eGFR - Creatinine Can be Useful** - Zoltan Endre, MD

3:50-4:10 **Pathogenesis of AKI the Problem is Right Under Our Nose** - John Kellum, MD

4:10-4:30 **How Should We Quantify the Effect of AKI on CKD** - Paul Kimmel, MD

4:30-4:50 **Endothelial Microparticles and MicroRNA in AKI** - TBD

4:50-5:10 **Can We Personalize RRT Based Biomarker Profiles?** - Raghavan Murugan, MD

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

5:30 *Adjourn*