



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

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

Tuesday, March 4, 2014 Manchester Grand Hyatt San Diego, California

This symposium immediately precedes the **19th 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 12 - 8:00am-5:30pm**

CRRT 2014 Registrants receive a \$30 dollar discount - includes lunch, AM & PM breaks

On or before  
Jan. 13, 2014

**\$260.00**

Jan. 14 thru  
Feb. 17, 2014

**\$280**

Feb. 18 thru  
Mar. 7, 2014

**\$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

8:00-8:10 **Session Introduction** - Anupam Agarwal, MD

8:10-8:30 **Intracellular Pattern Recognition Receptors and Renal Ischemia** - Dianne McKay, MD

8:30-8:50 **Inflammation, Hypoxemia, Nitric Oxide and ROS Conspire to Injure the Kidney** - Can Ince, PhD

8:50-9:10 **Pyruvic Acid: At the 'Cross Roads' of Cellular Energetics, Inflammation, and Cytoresistance** - Richard Zager, MD

9:10-9:30 **Origins of the Myofibroblasts in Kidney Fibrosis** - Jeremy Duffield, MD

9:30-9:50 **Nrf2 Modulation for AKI - Beyond Bardoxylone** - Hamid Rabb, MD

9:50-10:00 **Session Summary** - Bruce Molitoris, MD

10:00-10:15 *Coffee Break*

**PLENARY 2 Of Mice and Men: Translational Research in AKI** - Co-Chairs: Paul Sanders, MD and Mark Okusa, MD

10:15-10:25 **Session Introduction** - Paul Sanders, MD

10:25-10:45 **Individualizing the Response to Injury: Epigenetics of AKI** - Daniel O'Connor, MD

10:45-11:05 **Hemolytic Uremic Syndrome: An Evolving Disease** - Giuseppe Remuzzi, MD

11:05-11:25 **Attenuating the Immune Response in AKI: The Role of Alkaline Phosphatase** - Peter Pickkers, MD

11:25-11:45 **Microcirculatory Dynamics in Sepsis and AKI: Mechanisms from the Bench** - Prabhleen Singh, MD

11:45-12:05 **Novel Models of AKI: Lessons from Leptospirosis** - Joseph Vinetz, MD

12:05-12:15 **Session Summary** - Mark Okusa, MD

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

**PLENARY 3 Improving Outcomes in AKI: What Should We Focus On?**

Co-Chairs: Norbert Lameire, MD and Paul Palevsky, MD

1:15-1:25 **Session Introduction** - Norbert Lameire, MD

1:25-1:45 **Clinical Course Following AKI: Recovery vs Progression** - Chris McIntyre, MD

1:45-2:05 **Harmonizing Care Management in AKI** - Glenn Chertow, MD

2:05-2:25 **Focus on Lipids: HDL and Its Associated Lipoproteins in Cardiac and Renal Disease** - Peter McCullough, MD

2:25-2:45 **Innovations in Dialysis Care and Delivery** - Claudio Ronco, MD

2:45-3:05 **"Remodeling" the Kidney: The Plasticity of Progenitor and Kidney Cells** - Giuseppe Remuzzi, MD

3:05-3:15 **Session Summary** - Paul Palevsky, MD

3:15-3:30 *Coffee Break*

**PLENARY 4 Biomarkers in AKI: Are We Ready for Prime Time?** - Co-Chairs: Prasad Devarajan, MD and Patrick Murray, MD

3:30-3:40 **Session Introduction** - Prasad Devarajan, MD

3:40-4:00 **AKI Biomarkers: Barriers and Solutions** - Zoltan Endre, MD

4:00-4:20 **Repair or Progression after AKI: The Role of Biomarkers** - John Kellum, MD

4:20-4:40 **Peri-operative Urinary Biomarkers and its Association with Short and Long Term Mortality** - Chirag Parikh, MD

4:40-5:00 **The Kidney in Liver Disease: Can Biomarkers Help?** - Julia Wendon, MD

5:00-5:20 **Biomarkers in the Management of Cardiorenal Syndrome** - Alan Maisel, MD

5:20-5:30 **Session Summary** - Patrick Murray, MD

5:30 *Adjourn*