



Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management

UAB/UCSD O'Brien Center Symposium on AKI

Tuesday, February 14, 2012 Hilton San Diego Bayfront San Diego, California

Room: Aqua 306 AB

AGENDA

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

PLENARY 1 Molecules, Mechanisms and Targets *Co-Chairs: Bruce Molitoris, MD and Anupam Agarwal, MD*

8:00-8:20 **The Pathogenesis of Acute Kidney Injury (AKI) & the Toxic Triangle of O₂, NO & ROS** - Can Ince, PhD

8:20-8:40 **Mitochondria Dynamics in AKI** - Zheng Dong, PhD

8:40-9:00 **Sepsis and AKI: What Have We Learned?** - Martin Matejovic, MD

9:00-9:20 **Cell Cycle Regulation in AKI** - Robert Safirstein, MD

9:20-9:40 **Is Renal Dysfunction of Cirrhosis Truly Reversible?** - Rajiv Jalan, MD

9:40-10:00 **Mechanisms of Repair After AKI** - Ben Humphreys, MD

10:00-10:15 *Coffee Break*

PLENARY 2 Translational Research: Bedside to Bench and Back *Co-Chairs: Robert Schrier & John Kellum*

10:15-10:35 **Immune Hyporesponsiveness: Target for Monitoring and Intervention?** - Didier Payen, MD

10:35-10:55 **Human Endotoxemia: Does it Lead to Tubular Injury?** - Peter Pickkers, MD

10:55-11:15 **Acute Kidney Injury in Sepsis: A Role of the Microcirculation?** - Daniel De Backer, MD

11:15-11:35 **Targeting Nrf2 Regulation of Oxidative Stress to Improve AKI** - Hamid Rabb, MD

11:35- 11:55 **Targeting Recovery: What's Needed?** - Ravindra Mehta, MD

11:55-12:15 **Utilizing Mechanistic Modeling to Facilitate Clinical Drug Development** - William Macias, MD

12:15-1:15 pm *Lunch Hosted by Conference for Workshop Participants*

PLENARY 3 Concurrent Sessions

A. Pre-Clinical Models for Translational Research in AKI

Co-Chairs: Paul Sanders and Roland Blantz

1:15-1:35 **Rodent Models and Imaging**

Kurt Zinn, PhD

1:35-1:55 **Dissecting Immune Responses in AKI**

Mark Okusa, MD

1:55-2:15 **Unraveling the Interactions of AKI and CKD**

Roland C. Blantz, MD

2:15-2:35 **Visualizing the Microcirculation**

Bruce Molitoris, MD

2:35-2:55 **Using Gene-targeted Mice to Study Renal Physiology In Vivo** - Volker Vallon, MD

2:55-3:15 **Genetic Labeling Techniques**

Ben Humphreys, MD

B. Enhancing Clinical and Translational Research in AKI

Co-Chairs: Claudio Ronco and Robert Safirstein

When Did AKI Start: Baseline vs Reference Creatinine - Etienne Macedo, MD

Clinical Endpoints for AKI: Do We Have a Consensus? - John Kellum, MD

Outcomes Research: The Role of an AKI Registry - Josee Bouchard, MD

Design Issues & Strategies for Biomarker Guided Clinical Trials - Zoltan Endre, MD

Post-Cardiac Arrest Therapeutic Hypothermia and Acute Kidney Injury - Henry Wang, MD

Trial Designs for Preventing AKI Progression to CKD - Lakhmir Chawla, MD

3:15-3:30 *Coffee Break*

PLENARY 4 Tools to Characterize Human AKI *Co-Chairs: Mark Okusa and Hamid Rabb*

3:30-3:50 **Epigenetics and the Interface Between Host and Environment** - Andrew D. Shaw, MD FRCA

3:50-4:10 **Diagnostic Value of Urine Electrolytes in AKI** - Robert Schrier MD

4:10-4:30 **Candidate Biomarkers for Sepsis Associated AKI in Children: A Microarray Analysis** - Hector Wong, MD

4:30-4:50 **Biomarkers in AKI: An Update** - Jonathan Barasch, MD PhD

4:50-5:10 **Assessing Kidney Function in the Patient with Cardiorenal Syndrome** - Claudio Ronco, MD

5:10-5:30 **Urinary Exosomes: Emerging Tools for Characterizing AKI** - Pam Taub, MD

5:30 *Adjourn*