



## **PROGRAM**

### **ISN Forefronts in Nephrology**

#### **Endothelial Biology and Renal Disease: From the bench to prevention**

**March 16 – 19, 2006**

**Palisades, New York**

**USA**

#### **Thursday, 16 March, 2006**

**12.00-17.00**    **Arrival of guests and registration**

**18.00-19.00**    **Dinner** (Hearth Dining Room)

**19.00-19.10**    **Welcome** (Watson Room)

*Michael S. Goligorsky, New York Medical College, USA*

*Ton Rabelink, Leiden University Medical Centre, The Netherlands*

**19.10-20.00**    **Opening Lecture**

*Qais Al-Awqati, Columbia University, USA*

**20.00-21.00**    **Opening Reception**

#### **Friday, 17 March, 2006**

**07.30-08.30**    **Breakfast**

**08.30-10.30**    **Session 1: Endothelial cell cycle**

*Chair: Dr. William Sessa, Yale University, USA*

Mechanisms Affecting Endothelial Hyperpermeability

*Victor van Hinsbergh, VU University Medical Center, Amsterdam, The Netherlands*

Senescence and apoptosis

*Judit Haendeler, Frankfurt Medical School, Germany*

Endothelial progenitor cells

*Hermann Haller, Hannover Medical Center, Germany*

Endothelial injury and repair

*Ton Rabelink, Leiden University Medical Centre, The Netherlands*

**10.30-11.00**    **Coffee break**

**11.00-13.00**    **Session 2: Signaling in endothelial cells**

*Chair: Dr Vikas Sukhatme, Beth Israel Hospital Deaconess Medical Center, USA*

Caveolae as signalosomes in endothelia

*Michael Lisanti, Albert Einstein College of Medicine, USA*

Signals converging on eNOS  
*William Sessa, Yale University, USA*

Dual role of carbon monoxide in endothelial-smooth muscle signaling  
*Alberto Nasjletti, New York Medical College, USA*

Redox signalling  
*Bradford Berk, University of Rochester, USA*

**13.00-14.00 Lunch**

**14.00-16.00 *Hot topics and Poster Session***

**16.00-18.00 Session 3: General Mechanisms of Endothelial Dysfunction in Renal Disease**  
*Chair: Dr Bradford Berk, University of Rochester, USA*

ROCKs and Endothelial Dysfunction  
*James K. Liao, Harvard Medical School, USA*

ADMA  
*Patrick Vallance, University College London, UK*

Dyslipidemia  
*Erik Stroes, University Hospital Utrecht, The Netherlands*

Endothelium in Insulin Resistance  
*Coen Stehouwer, University Hospital Maastricht, The Netherlands*

**18.30-19.30 Dinner**

**19.30-21.00 Evening lecture: Vignettes in Vascular Biology: From Fish to Humans**  
*Vikas Sukhatme, Beth Israel Hospital Deaconess Medical Center, USA*

## **Saturday, 18 March, 2006**

**07.30-08.30 Breakfast**

**08.30-10.30 Session 4: Clinical Markers of Endothelial Dysfunction**  
*Chair: Dr Christopher Wilcox, Georgetown University Medical Center, USA*

Surrogate Markers of Endothelial Dysfunction  
*Carmine Zoccali, CNR, Hospital of Regio Calabria, Italy*

Vessel wall function measurement  
*John E. Deanfield, Institute of Child Health, UK*

Pulse pressure wave analysis: marker of endothelial dysfunction?  
*Gerard London, Centre Hospital Manhes, France*

Assessment of Endothelial Function via Laser Doppler Flowmetry  
*Julian Stewart, New York Medical College, USA*

**10.30-11.00 Coffee break**

- 11.00-13.00 Session 5: Endothelial organelles**  
*Chair: Dr Alberto Nasjletti, New York Medical College, USA*
- Endothelial dysfunction in Fabry disease  
*James A. Shayman, University of Michigan, USA*
- Regulation of mitochondrial biogenesis and function by nitric oxide  
*Emilio Clementi, University of Milan, Italy*
- SNO modification of proteins  
*Steven S. Gross, Cornell University, USA*
- Endoplasmic reticulum stress  
*David Ron, New York University School of Medicine, USA*
- 13:00-15:00 Lunch and Roundtable discussion - What is Endothelial Cell Dysfunction**  
*Moderators: Eberhard Ritz, Heidelberg University, Germany*  
*John E. Deanfield, Institute of Child Health, UK*  
*Coen Stehouwer, University Hospital Maastricht, The Netherlands*  
*Michael S. Goligorsky, New York Medical College, USA*
- 15.00-16:00 Poster Discussion Session**
- 16:00-18.00 Session 6: Arachidonic acid metabolites and their actions on endothelium**  
*Chair: Dr. Richard Johnson, University of Florida College of Medicine, USA*
- Renal Vascular Actions of Epoxide Metabolites: EDHF and Other Emerging Concepts  
*John Imig, Medical College Of Georgia, USA*
- Vasoconstrictor Prostaglandins and Thromboxanes Mediate Endothelial Function in Oxidative Stress  
*Christopher Wilcox, Georgetown University Medical Center, USA*
- Cytochrome P450 epoxygenase metabolites in vascular signalling  
*Rudi Busse, University of Frankfurt, Germany*
- The cell-specific and hypoxia-regulated expression of endothelial nitric oxide synthase (eNOS) is controlled by chromatin-based mechanisms  
*Philip A. Marsden, University of Toronto, Canada*
- 18.30-20.30 Dinner**

## **Sunday, 19 March, 2006**

- 07.30-08.30 Breakfast**
- 08.30-10.30 Session 7: Endothelial cross-talk with other cells**  
*Chair: Dr. Rudi Busse, University of Frankfurt, Germany*
- Pharmacology and Nanopharmacology in Platelet Research  
*Marek Radomski, University of Texas, USA*
- Endothelial-monocyte interactions  
*Catherine Godson, University of Dublin, Ireland*
- Endothelial-smooth muscle cell interactions  
*Shaun Sandow, University of New South Wales, Australia*
- Endothelial-podocyte interactions  
*Susan Quaggin, The Samuel Lunenfeld Research Institute, Canada*

**10.30-11.00 Coffee break**

**11.00-13.00 Session 8: Prevention of endothelial dysfunctions in renal diseases**

*Chair: Dr. Eberhard Ritz, Heidelberg University, Germany*

Anti-oxidant Therapies

*Michael Wolin, New York Medical College, USA*

Hypoxia-inducible gene expression as a potential therapeutic target

*Kai-Uwe Eckardt, University of Erlangen-Nuremberg, Germany*

NO and the Control of Tissue Oxygen Use

*Thomas Hintze, New York Medical College, USA*

Uric acid induced endothelial dysfunction: A central mechanism for  
Cardiorenal diseases?

*Richard Johnson, University of Florida College of Medicine, USA*

**13.00-14.00 Lunch**