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)

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 signallingosomes 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*

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**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