Thursday, 8 September, 2005

12:00-17:00h  Arrival of guests

17:00-17:10h  Welcome & Tribute to the Memory of Robert W. Berliner
Remise  Gerhard Giebisch, Yale University School of Medicine, USA

17:10-18:00h  Sensing with K⁺ Channels
Michel Lazdunski, Centre National de la Recherche Scientifique, France

18:00-19:30h  Welcome Reception in the Barcockgarten (weather permitting)

Friday, 9 September, 2005

07:30-09:00h  Breakfast
Kornschütte

09:00-10:20h  Session 1: Transport Mechanisms of Potassium
Remise  Chair: Steven Hebert, Yale University School of Medicine, USA
Properties and Regulation of Na⁺,K⁺-ATPase
Torben Clausen, Institute of Physiology, Denmark

The Apical, Renal-Specific Na-K-2Cl Cotransporter
Gerardo Gamba, National Institute of Nutrition, Mexico

10:20-10:40h  Coffee break

10:40-12:00h  Molecular Regulation and Physiology of the H⁺, K⁺- ATPases in Kidney
Thomas DuBose, Wake Forest University School of Medicine, USA

Routes of K⁺ Secretion Across the Distal Nephron
Lawrence Palmer, Weill Medical College of Cornell University, USA

12:00-14:00h  Lunch

14:00-14:40h  Session 2: Control of Internal K Balance
Chair: Donald Seldin, University of Texas Southwestern Medical Center, USA

Extrarenal Regulation of K Distribution
Jang H. Youn, USC Keck School of Medicine, USA
14:40-15:20h  Session 2: The Kidney in K-Homeostasis
Renal Tubule Transport of K
Steven Hebert, Yale University School of Medicine, USA

15:20-15:40h  Coffee break

15:40-17:15h  Luminal Factors Regulating K Transport
Gerhard Malnic, Instituto de Ciencias Biomedicas USP, Brazil
Superoxide is Involved in the Regulation of ROMK Channel Activity
WenHui Wang, New York Medical College, USA
A Mathematical Model of Rat Distal Convoluted Tubule: Potassium Secretion along the Connecting Segment
Alan Weinstein, Weill Medical College of Cornell University, USA

17:15-18:30h  Poster Viewing Session
Remise

19:30-21:00h  Dinner

Saturday, 10 September, 2005

07:30-08:30h  Breakfast
Kornschütte

08:30-09:00h  Session 3: The Kidney in K-Homeostasis
Remise  Chair: Shigeaki Muto, Jichi Medical School, Japan
Developmental Aspects of Renal K Transport
Lisa Satlin, Mount Sinai School of Medicine, USA

09:00-10:00h  Session 3: Role of K in Gastric & Colonic Transport
Role of K in Gastric Acid Secretion
Michael Caplan, Yale University School of Medicine, USA
Colonic K⁺ Transport
Richard Warth, University of Regensburg, Germany

10:00-10:30h  Coffee break

10:30-12:00h  Session 3: Role of K in Circulation
Potassium and Hemodynamics
Stuart Linas, Denver Health Medical Center, USA
Role of K in Glomerular Mesangium
Steven Sansom, University of Nebraska Medical Center, USA

12:00-14:00h  Lunch

14.00-16:45h  Session 4: Physiology and Pathophysiology of Renal K Handling
Chair: Robert Alpern, Yale University School of Medicine, USA
Regulation of K⁺ Excretion in Chronic Kidney Disease
F. John Gennari, University of Vermont College of Medicine, USA
Interaction of Tubule K-NH₄ Transport
Susan Wall, Emory University School of Medicine, USA
Steroid Effects on Renal K Transport
*Laurent Schild, Institute of Pharmacology & Toxicology, Switzerland*

Genetic Derangements of Renal K Transport
*Richard Lifton, Yale University School of Medicine, USA*

17:15-18:30h **(Optional) Monastery and Museum Tour**
Departure from entrance Remise

18:30-19:30h **Poster Viewing Session**
Remise

20:00-21:30h **Dinner**

**Sunday, 11 September, 2005**

07:30-09:00h **Breakfast**
Kornschütte

09:00-10:00h **Session 5: The Kidney in K-Homeostasis**
*Chair: Gianni Capasso, Second University of Napoli, Italy*

Control of the Excretion of Potassium (K) In Vivo Using Diagnostic Tests: Lessons Learned from A 70-Kg Rat Using Non-Invasive Techniques to Evaluate the K Secretory Process
*Mitchell Halperin, St. Michael’s Hospital, Canada*

Role of K in Cardiovascular Protection
*David Young, University of Mississippi, USA*

10:00-10:25h **Coffee break**

10:25-12:00h **Session 5: Newer Developments**

Tubular Acidosis and Renal K Transport
*Robert Unwin, Middlesex Hospital, UK*

Role of SGK1 in Renal Sodium and Potassium Transport
*Florian Lang, Physiologisches Institut, Germany*

Trafficking of K channels
*Paul Welling, University of Maryland, USA*

12:00-12:15h **Concluding Remarks**
*Gerhard Giebisch, Yale University School of Medicine, USA*

12:15-13:30h **Farewell lunch**