



Scientific Program

Oral presentations

Thursday, August 22nd 2013

Vascular Applications

- 9:00 – 9:30 **G.P. van Nieuw Amerongen (The Netherlands)**
Electrical Cell Impedance Sensing in vascular permeability research
- 9:30 – 10:00 **D.J. Grab, T. Moriguchi, G. Chitragari, A. Rathakrishnan, Y.Q. Tang, A.M. Khan, N.A (USA)**
Blood-Brain Barrier Responses to African Trypanosome Infection
- 10:00 – 10:15 **A. Kosztin, L. Polgár, L. Kóhidai and G. Földes (Hungary)**
Angiogenic Effect of Human Pluripotent Stem Cell-derived Endothelial Cells
- 10:15 – 10:45 **Coffee Break**
- 10:45 – 11:00 **L. Polgar, P. Soos, E. Lajko, O. Lang, B. Merkely and L. Kohidai (Hungary)**
Measurement of Platelet Function with Impedimetry - The Effect of Agonists and Heparin on Adhesion and Spreading of Human Platelets
- 11:00 – 11:15 **R. Szulcek, J. van Bezu, J.J.W.A. van Loon and G.P.**

van Nieuw Amerongen (The Netherlands)

Transient Intervals of Hyper-gravity Enhance the Endothelial Barrier by Improvement of Junctional Integrity

K. Itagaki and C. J. Hauser (USA)

11:15 – 11:45

Mitochondrial DAMPs on Endothelial Permeability
-The Role of Neutrophil-

A. Dietrich, H. Kalwa, A. Sydykov, B. Fuchs, U. Storch, T. Gudermann, N. Weissmann (Germany)

11:45 – 12:00

Loss of Barrier Function in Lung Endothelial Cells Induced by TRPC6 Activation During Lung Ischemia-Reperfusion-Induced Edema (LIRE)

A.E. Tóth, F.R. Walter, A. Bocsik, S. Veszelka, L. Kiss, L. Nagy, B. Ózsvári, L.G. Puskás, S. Dohgu, Y. Kataoka and M.A. Deli (Hungary)

12:00 – 12:15

Carbonyl Stress in Human Brain Endothelial Cells and Potential Therapeutic Agents

12:15 – 14:00

Lunch

Signal Transduction

M. Trebak (USA)

14:00 – 14:30

Receptor-evoked Ca²⁺ signaling and endothelial permeability

K. Groschner, M. Scherthaner and J Heitz (Austria)

14:30 – 15:00

Novel insights into the control of endothelial phenotype by adhesion contacts - role of matrix architecture, Ca²⁺ entry and beta-catenin signaling

J.A. Stolwijk, M.Trebak and C. Renken (USA)

15:00 – 15:15

Challenges in ECIS Assay Development

K.Szabó, G. Tax, L. Erdei, B. Sz. Bolla, E. Urbán and L. Kemény (Hungary)

15:15 – 15:30

Analysis of the Strain and Dose Specific Effect of Various *Propionibacterium Acnes* Strains on the Cellular Functions of HPV-KER Cells Using Impedance Measurement-Based Technologies

15:30 – 15:45

P. Babica, J. Novák and I. Sovadinová (Czech Rep.)

Study of Paracrine Signaling between Leydig and Sertoli Cells Using Impedance Analysis

V. Charwat, M. Joksch, M. Purtscher, M. Rothbauer and P. Ertl (Austria)

15:45 – 16:00

Improving Impedance Cell Analysis: High Frequency Dielectric Spectroscopy in Combination with Multivariate Data Analysis and Complementary Assays

16:00 – 16:15

Coffee Break

16:15 – 17:45

**Poster session 2
(P21 – P51)**

19:30 – 22:00

Conference Dinner

21:00

Keynote Talk