

3. - 5. October 2013



Marburg, Germany

K_{2P}-channels - from molecules to Physiology and Pathophysiology

Aula der Alten Universität
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***K_{2P}-Kanäle - vom Molekül zur
Physiologie und Pathophysiologie***

FOR 1086

Göttingen - Kiel - Marburg - Münster - Regensburg

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OF FOR 1086

Thursday, 3th Oct.

Aula der Alten Universität, Lahntor 3, 35037 Marburg

15:00 Welcome reception at the Old University (Alte Aula)

16:00 Opening remarks

Keynote lectures

16:10 Paul Welling, Baltimore, USA
Potassium Channels find their way in Membrane Traffic

17:10 Stephen J. Tucker, Oxford, UK
A Structural Basis for Gating in K₂P Channels

19:30 Dinner

Friday, 4th Oct.

Großer Hörsaal, Institut f. Physiologie u. Pathophysiologie, Deutschhausstr. 2

8:30 Douglas Bayliss, Charlottesville, USA
The role of TASK-1 and TASK-3 in the central nervous system

9:15 Donghee Kim, Chicago, USA
K₂P channels in the carotid body

10:00 Peter Enyedi, Budapest, Hungary
The regulation of TREK channels

10:45 Coffee break

11:15 Jaeyong Park, Seoul, South Korea
Heterodimer of TREK-1/TWIK-1 mediates the passive conductance in astrocyte

Friday, 4th Oct.

Großer Hörsaal, Institut f. Physiologie u. Pathophysiologie, Deutschhausstr. 2

12:00 Justin Lee, Seoul, South Korea
Role of K₂P channels in astrocytes: glutamate release, volume regulation, and synaptic plasticity

12:45 Lunch break

13:30 Poster session

14:30 Florian Lesage, Sophia Antipolis, France
The properties and possible functions of TWIK channels

15:15 Francisco Sepulveda, Valdivia, Chile
G-protein and plasma membrane PIP₂ as novel modulators of pH-gated two pore domain TASK-2 K⁺ channels

16:00 Ita O'Kelly, Southampton, UK
The intracellular traffic of TASK channels

16:45 Coffee break

17:15 Thomas Baukrowitz, Kiel, Germany
Mechanistic /structural analysis of the regulatory mechanisms of TREK-1 channels

18:00 Sven Meuth / Thomas Budde, Münster, Germany
Endothelial TREK-1 channels is a critical regulator of immune cell trafficking in the CNS

18:45 Refreshment (until 19:45)

20:30 Social event

Saturday, 5th Oct.

Großer Hörsaal, Institut f. Physiologie u. Pathophysiologie, Deutschhausstr. 2

8:30 Niels Decher, Marburg, Germany
Cardiac K₂P-channels and their extracellular pore structure

9:15 Jürgen Daut, Marburg, Germany
Proteins interacting with TASK-1 channels

10:00 Richard Warth / Sascha Bandulik, Regensburg, Germany
Adrenal potassium channels: An important TASK!

10:45 Coffee break

11:15 Dominik Oliver, Marburg, Germany
Receptor-mediated regulation of TASK channels

12:00 Blanche Schwappach, Göttingen, Germany
Trafficking of endogenous ion channels in cardiac myocytes

12:45 Concluding remarks

13:00 Lunch

14:30 End of the symposium

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