4th Scientific Symposium and Kick-off Meeting
July 6th – 12th, 2013
Centre for Biotechnology and Biomedicine / Lecture Hall

Monday, July 8th, 2013

9.00 a.m.
Opening remarks and welcome
Prof. Dr. med. Beate Schücking
Prof. Dr. Annette Beck-Sickinger
Prof. Jens Meiler

Part I: Kick-off research group GPCR 1+2 & IRTG Initiative

9.30 a.m.
General Information and Overview research group and IRTG initiative „Biosynthesis and Signaling of Ligands Interacting with G-Protein Coupled Receptors“

10.00 a.m.
Daniel Huster: Investigation of the Structure and Dynamics of the Hormone Ghrelin Bound to its G Protein-Coupled Receptor

10.20 a.m.
Hassane Mchaourab: Conformational Dynamics of Membrane Proteins

10.40 a.m.
Jan Stichel: Allosteric Modulation of Neuropeptide Y Receptors

Coffee Break

11.20 a.m.
Peter Schmidt: Identification of the structural specificity of the interaction of neuropeptide Y with Y1 and Y2 receptors by NMR spectroscopy

11.40 a.m.
Norbert Sträter: Biosynthesis and metabolism of ligands of P1 and P2Y receptors

12.00 a.m.
Peter Brust: Synthesis and development of metabolic P2Y receptor ligands for imaging

12.20 a.m.
Sonja Prohaska: Molecular modeling of GPCR ligand binding sites using phylogenetic and molecular dynamic methods

12.40 a.m.
Jens Meiler: Modeling G-Protein Coupled Receptors for Computer Aided Drug Discovery

Lunch Break

2.00 p.m.
Thorsten Berg: Small-molecule inhibitors of STAT3 as modulators of GPCR signaling

2.20 p.m.
Andrea Robitzki: Functional real-time analysis of GPCR in 3D cell systems: screening of Y-receptor-ligand-coupled toxins

2.40 p.m.
Torsten Schöneberg: Physiological relevance of adhesion G-protein coupled receptor GPR133

3.00 p.m.
Peter F. Stadler: Comprehensive Gene Phylogeny of G-Coupled Protein Receptors

3.20 p.m.
Ralf Paschke: Structural analysis of Glycoprotein hormone receptors by advanced mass spectometry and molecular modeling

Coffee Break

4.00 p.m.
Irene Coin: Mapping interactions of GPCRs with genetically encoded chemical probes

4.20 p.m.
Annette G. Beck-Sickinger: Identification of key residues of neuropeptide Y receptors for G-protein and arrestin interaction by chimeric receptors

4.40 p.m.
Vsevolod V. Gurevich: Making receptor-specific non-visual arrestins: how far can we go and what can we achieve with them?

5.00 p.m.
Evamaria Hey-Hawkins: Carbaborane-containing cyclooxygenase inhibitors for modulating the biosynthesis of prostaglandin

5.20 p.m.
Terry Lybrand: Molecular modeling of cyclooxygenase-inhibitor complexes: Structure-activity relationships for indomethacin analogs

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mit freundlicher Unterstützung: