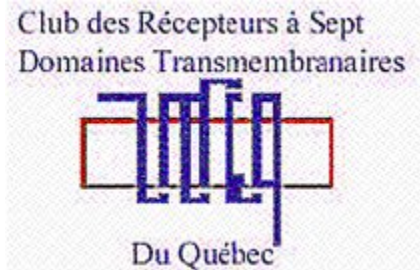




2009 Joint Meeting

Memorial Art Gallery
of the University of Rochester
Rochester, New York
October 15-18, 2009



2009 Program

Thursday, October 15, 2009

- 2:00 p.m. - Registration (*Vanden Brul Pavilion*)
- 4:20 – 4:30 p.m. Welcome (*Gallery Auditorium*)
(*No food or beverages are allowed in the Gallery Auditorium.*)

Session I: Van Tol Symposium, The Hubert Van Tol Model Organism Symposium (*Gallery Auditorium*)

Session Chair: Stephen Ferguson

- 4:30 – 4:45 p.m. **Introductory Remarks**
- 4:45 – 5:15 p.m. **Henrik G. Dohlman**, University of North Carolina at Chapel Hill
“G Protein regulation by mono- and poly-ubiquitination”
- 5:15 – 5:45 p.m. **Jurgen Wess**, Molecular Signaling Section, NIDDK, National Institutes of Health
“Phenotypic analysis of conditional muscarinic V2 vasopressin receptor knockout mice: Clinical implications”
- 5:45 - 6:15 p.m. **Janet Robishaw**, Weis Center for Research, Geisinger Clinic
“In vivo veritas: Using zebrafish and mice to probe the biological function off G protein γ subtypes”
- 6:15 – 6:35 p.m. **Chau Nguyen**, University of Western Ontario
“RGS2 inhibits protein synthesis and cell growth”
- 6:35 – 8:00 p.m. **Dinner** (*M&T Bank Ballroom*)
- 8:00 – 8:45 p.m. **Keynote Address, Hyman Niznik Memorial Lecture** (*Gallery Auditorium*)
Introduction: Alan V. Smrcka
Thomas P. Sakmar, The Rockefeller University
“Molecular mechanisms of transmembrane signal transduction by G protein-coupled receptors”
- 8:45 – Welcome reception (*Vanden Brul Pavilion*)

Friday, October 16, 2009

7:15 – 8:15 a.m. Breakfast (*Strathallan Hotel*)

Session II: Structure and Function of GPCR signaling (*Gallery Auditorium*)

Session Chair: Mark Dumont

- 8:30 – 9:00 a.m. **Steven O. Smith**, State University of New York at Stony Brook
“Structural insights into the mechanism of light-activation of the visual pigment rhodopsin”
- 9:00 – 9:30 a.m. **Stephen Sprang**, University of Montana, Missoula
“The role of protein dynamics in Ric-8A-catalyzed nucleotide exchange”
- 9:30 – 10:00 a.m. **John J.G. Tesmer**, University of Michigan
“Activation of G protein-coupled receptor kinases by GPCRs”
- 10:00 – 10:20 a.m. **Dong Soo Kang**, Thomas Jefferson University
“Structure of an arrestin2/clathrin complex reveals a novel clathrin binding domain that modulates receptor trafficking”
- 10:20 – 11:00 a.m. Coffee Break (*Bausch and Lomb Parlor*)

Session III: Scaffolding and Trafficking of GPCRs, (*Gallery Auditorium*)

Session Chair: Paul J. Kammermeier

- 11:00 – 11:30 a.m. **Mark Dell'acqua**, University of Colorado, Denver
“Organization of cAMP and calcium second messenger signaling pathways at the postsynaptic excitatory neuronal synapses”
- 11:30 – 12:00 noon **Stéphane Laporte**, McGill University
“Regulation of G protein coupled receptor signaling by β -arrestin”
- 12:00 – 12:30 p.m. **Patricia M. Hinkle**, University of Rochester Medical Center
“Regulation of melanocortin receptor trafficking and signaling by novel accessory proteins”
- 12:30 – 1:00 p.m. **Katherine Roche**, Receptor Biology Section, NINDS, National Institutes of Health
“Regulation of mGluR trafficking”
- 1:00 – 2:00 p.m. Lunch (*M&T Bank Ballroom*)

Session IV: GPCR activation and Signaling Mechanisms (Gallery Auditorium)
Sponsored by the Alejandro Zaffaroni Fund in the Department of Pharmacology and Physiology, University of Rochester Medical Center

Session Chair: Alan V. Smrcka

- 2:00 – 2:30 p.m. **Michel Bouvier**, Université de Montréal
“Dynamics of G protein signalling complexes determining ligand-biased signalling and functional selectivity”
- 2:30 – 3:00 p.m. **Roger Sunahara**, University of Michigan
“Molecular mechanisms of hormone activation of G protein coupled receptors.”
- 3:00 – 3:30 p.m. **Maurine Linder**, Cornell University
“Regulation of G protein palmitoylation”
- 3:30 – 3:50 p.m. **Nevin A. Lambert**, Medical College of Georgia
“Constitutive association of GPCRs and G proteins studied with third-party BRET”
- 5:00 – 7:00 p.m. **Poster Session I (Vanden Brul Pavilion)**
- 7:30 p.m. **Dinner (M&T Bank Ballroom)**

Saturday, October 17, 2009

- 7:15 – 8:15 a.m. Breakfast (*Strathallan Hotel*)

Session V: GPCR Directed Ligand Screening (Gallery Auditorium)

Session Chair: Michel Bouvier

- 8:30 – 9:00 a.m. **Bryan Roth**, University of North Carolina
“Novel GPCR-based therapeutics to treat human disease.”
- 9:00 – 9:30 a.m. **P. Jeffrey Conn**, Vanderbilt University Medical Center
“Allosteric modulators of GPCRs as a novel approach for treatment of CNS disorders”
- 9:30 – 10:00 a.m. **Marlene Jacobson**, Merck
“Allosteric modulators of metabotropic glutamate receptors for the treatment of schizophrenia”
- 10:00 – 10:20 a.m. **Wayne Stallaert**, Université de Montréal
“Monitoring the multiple signalling pathways of G protein-coupled receptors using a label-free impedance-based detection method”

10:30 – 11:00 a.m. Coffee Break (*Bausch and Lomb Parlor*)

Session VI: G protein Coupled Receptor Signaling (*Gallery Auditorium*)

Session Chair: Gregory G. Tall

- 11:00 – 11:30 a.m. **Paul Sternweis**, University of Texas, Southwestern Medical Center at Dallas
“Mechanisms for regulation of RhoGEFs by the heterotrimeric G12 and G13 Proteins”
- 11:30 – 12:00 noon **David P. Siderovski**, University of North Carolina at Chapel Hill
“GoLoco and RGS proteins: Emerging genetic and small molecule tools to assess function”
- 12:00 – 12:30 p.m. **Joe Blumer**, Medical University of South Carolina
“Receptor regulation of the AGS4 – G-protein interaction”
- 12:30 – 12:50 p.m. **Lily Jiang**, University of Texas Southwestern Medical Center at Dallas
“A novel regulation of cAMP signaling in the immune system”
- 1:00 – 2:00 p.m. Lunch (*M&T Bank Ballroom*)

Session VII: Translational/Pharmacogenomics (*Gallery Auditorium*)

Session Chair: Louis M. Luttrell

- 2:00 – 2:30 p.m. **Stephen B. Liggett**, University of Maryland School of Medicine
“Pharmacogenomics of cardiovascular disease”
- 2:30 – 3:00 p.m. **Paul Insel**, University of California at San Diego
“GPCRs and cAMP signaling components as novel drug targets in disease”
- 3:00 – 3:30 p.m. **Ross Feldman**, Robarts Research Institute
“Regulation of cAMP synthesis beyond GPCR/G protein activation: Implications in cardiovascular regulation”
- 3:30 – 3:50 p.m. **Kristina Lorenz**, University of Würzburg
“A new pathway for cardiac hypertrophy: G-proteins and ERK-phosphorylation”
- 5:00 – 7:00 p.m. **Poster Session II** (*Vanden Brul Pavilion*)
- 7:30 p.m. **Dinner** (*M&T Bank Ballroom*)

Sunday, October 18, 2009

- 7:15 – 8:15 a.m. Breakfast (*Strathallan Hotel*)
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