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Early Registration Deadline: April 30, 2008
Accommodation Deadline: June 16, 2008

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3rd RGS Colloquium

April 4-5, 2008, San Diego, CA

Organized by: Michael Koelle, PhD and Richard R. Neubig, MD, PhD
This is a Satellite Meeting to Experimental Biology 2008

Topics and Speakers include:

RGS Structure/Function
John Tesmer, University of Michigan
Roles of RGS proteins and RGS homology domains in signaling scaffolds
John Sondek, University of North Carolina at Chapel Hill
R7-family RGS proteins

RGS Targeting/Cellular Localization
John R. Hepler, Emory University
RGS proteins as multifunctional scaffolding proteins in cell physiology
Kendall J. Blumer, Washington University School of Medicine
Post-translational modifications regulating RGS protein shuttling
Kirill Martemyanov, University of Minnesota
Macromolecular complexes of RGS9 - master regulators of G protein signaling in retina and striatum
Marilyn G. Farquhar, University of California at San Diego
Roles of RGS-PX1 in endocytosis and G protein signaling
Andrew Tinker, Royal Free & University College Medical School
The molecular basis of the pleiotropic effects of RGSs in the regulation of G-protein gated K+ channels

Novel Interactions/Functions
Vladlen Slepak, University of Miami
Structure and function of Gbeta5-R7 complexes: 10th anniversary
Peter Chidiac, University of Western Ontario
Novel regulatory properties of RGS2

RGS Action In Vivo
John H. Kehrl, National Institute of Allergy and Infectious Diseases
Insights into RGS protein function from the analysis of RGS and Gi alpha knock-out mice
John Traynor, University of Michigan
RGS proteins as a potential drug target for depression
Vanna Zachariou, University of Crete
A role of RGS9, RGS4, and RGSz in addiction and analgesia

Additional Program Information and Registration at:
http://www.aspet.org/public/meetings/meetings.html

We anticipate, but cannot guarantee, being able to provide some funds to assist junior scientists with travel to the meeting. See website for details.
Recent Advances in Muscarinic Receptor Pharmacology and Therapeutics
April 4 - 5, 2008
San Diego Marriott Hotel and Marina, San Diego, CA
Organized by Richard Eglen, Nigel Birdsall, Christian Felder, Allison Fryer and Neil Nathanson

Topics and Speakers Include:

Physical/Biophysical Studies:
- *Muscarinic receptor structure and function: Mutatis mutandis*
  Ed Hulme, MRC National Institute for Medical Research
- *Muscarinic receptor dimers and clustering - single molecule studies on living cells*
  Nigel Birdsall, MRC National Institute for Medical Research

Novel Aspects of Muscarinic Receptor Pharmacology:
- *At long last - emerging selective muscarinic receptor pharmacology*
  Christian Felder, Eli Lilly & Company
- *Potential for allosteric activators of M₁ and M₄ muscarinic receptors in the treatment of schizophrenia*
  Carrie Jones, Vanderbilt University
- *Optimizing inhaled muscarinic receptor antagonist dissociation rates to enhance duration and subtype selectivity*
  Steven Charlton, Novartis

Muscarinic Receptor Signaling and Phenotypes:
- *Regulation of muscarinic receptor expression and function*
  Neil Nathanson, University of Washington
- *Emerging data from novel muscarinic receptor mutant mouse models*
  Jurgen Wess, NIDDK/NIH
- *Subtype-specific functions of mAChRs revealed by the use of knock-out mice*
  Minoru Matsui, Chiba Institute of Science, Japan
- *Muscarinic modulation of striatal physiology in health and disease*
  James Surmeier, Northwestern University

Therapeutic Uses of Muscarinic Drugs:
- *Muscarinic receptor agonists: a novel treatment for schizophrenia*
  Anantha Shekhar, Indiana University
- *Muscarinic antagonists and bladder dysfunction*
  Clare Fowler, University College, London
- *Muscarinic antagonists and lung dysfunction*
  Allison Fryer, Oregon Health & Science University

Emerging Areas and Novel Concepts:
- *Non neuronal muscarinic systems*
  Sergei Grando, University of California at Irvine
- *Muscarinic receptors and apoptosis*
  Andrew Tobin, University of Leicester

Plenary Lecture:
- *Structure and dynamics of the human beta₂ adrenergic receptor*
  Brian Kobilka, Stanford University

Awards Opportunities

Otto Loewi New Investigator Awards and Lectures:
To recognize and encourage the work of young scientists, the Colloquium will offer prizes to up to three young investigators for scientific studies on muscarinic receptors.

Ruth Levine Award:
To recognize Ruth Levine’s outstanding encouragement and promotion of the research of graduate and immediate post-doctoral scientists, three presenters will be selected by the Scientific Committee in advance of the meeting on the basis of their poster abstracts and will be asked to present orally their most important findings. The best presentation, based on both oral presentation and poster, will be awarded the first Ruth Levine Award.

For more information and to apply, visit the meetings section on www.aspet.org

Additional Program Information and Registration at:
http://www.aspet.org/public/meetings/meetings.html
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