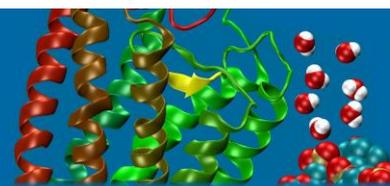


Structural Biology *of* Membrane Proteins



E-bulletin of Marie-Curie Integrated Training Network - SBMPs

December 2011

Conferences and workshops related to membrane proteins in 2012:

Keystone Symposia:

G Protein-Coupled Receptors:

Molecular Mechanisms and Novel Functional Insights

**February 17 - 21, 2012 , Fairmont Banff Spring,
Canada**

<http://www.keystonesymposia.org/12B4>

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology
Accelerating Life Science Discovery

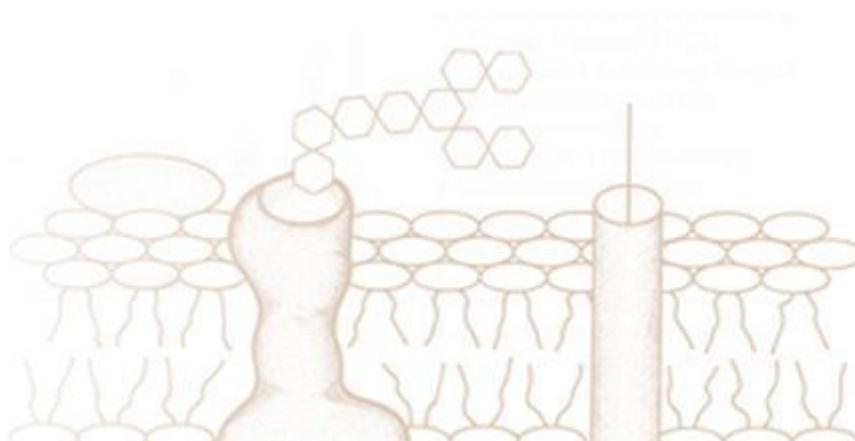
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Description:

The seven transmembrane-spanning G protein-coupled receptors (GPCRs) are the largest superfamily of receptors in the human genome, are involved in virtually all physiological processes and represent the targets for at least 30% of all current medicines. Recent years have witnessed the coalescing of a number of important paradigms, including ligand-biased signaling, allosteric modulation and receptor dimerization, with substantial advances in structural determination, chemical biology and in vivo approaches to studying GPCR function. These developments will undoubtedly have a profound impact on future approaches to GPCR-based drug

discovery. This meeting will focus on the interplay between these developments, and how they can be exploited to advance the translational application of cutting-edge GPCR-based research.

Biophysical Society:
Lipid-Protein Interactions in Membranes:
Implications for Health and Disease
November 1-5, 2012, Hyderabad, India
<http://www.biophysics.org/2012india/>



Description:

Membrane proteins occupy a central role in cellular physiology. Almost 50% of all proteins encoded by a eukaryotic genome are membrane proteins. As a result, ~50% of biological processes take place on membranes.

This meeting will focus on contemporary issues in this area with special emphasis on lipid interactions of membrane proteins and possible implications in health and disease. Breakthroughs in membrane protein research has been rather slow in the past due to technical difficulties in crystallizing membrane proteins and lack of appropriate techniques to monitor lipid-protein interactions in situ in natural membranes. Tremendous advances in membrane protein crystallography in the last few years, coupled with powerful molecular dynamics and microscopic approaches, have started to change this scenario. It is against this backdrop that this thematic meeting is taking place.

Bringing together the minds of leading researchers across various areas of contemporary membrane research will provide novel information and insight into membrane processes. This may help to develop robust models for function and interaction of membrane proteins, while enhancing our ability to design better therapeutic strategies to combat diseases related to malfunctioning of membrane proteins and receptors.

37th Lorne Conference on
Protein Structure and Function
5th - 9th February, 2012,
LORNE, VICTORIA, Australia
<http://www.lorneproteins.org/>



Description:

The goal of the meeting is to highlight leading edge protein science, irrespective of its focus. The meeting includes oral and poster presentation sessions, a young investigator session, trade workshops, social events and trade displays.

The information about new **conferences**, **courses** and **workshops** related to membrane proteins as well as some important news related to **SBMPs** (including meetings, publications etc.) please send to **Slawomir Filipek** (sfilipek@iimcb.gov.pl).
