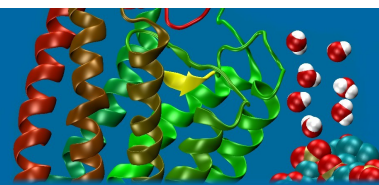


Structural Biology of Membrane Proteins



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

June 2011

Upcoming conferences and workshops in 2011:

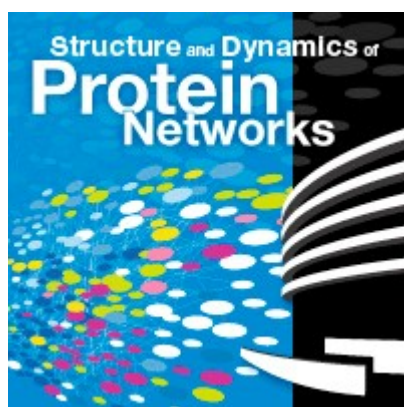
Symposium

Structure and Dynamics of Protein Networks

13 - 16 October 2011, EMBL Advanced Training Centre,

Heidelberg, Germany

<http://www.embo-embl-symposia.org/symposia/2011/EES11-03/index.html>



Description:

The general aim of the symposium is to explore the possible synergisms and cross-talk between the large-scale and classical approaches to biological networks.

Understanding the molecular mechanisms of biological function largely relies on the systematic charting of the dynamics interactions taking place between the various components of living cells. Recent "OMICS" technologies contribute large biological networks covering entire proteomes. These networks are generally static as they fail to capture spatial and temporal dimensions that represent essential properties of living systems. Mechanistic and dynamic insights often come from focused smaller-scale approaches, such as those used in structural biology, biophysics or cell biology.

This symposium brings together leading scientists from the "OMICS" field with leading structural and cell biologists to discuss scientific issues arising at the interface of these complementary fields. Possible avenues to populate current networks with dynamics and mechanistic insights that will ensure high levels of biological understanding and contribute to deciphering fundamental principles will be reviewed and investigated..

A Practical Course

Expression, Purification, Crystallization And Structure Of Membrane Proteins

September 12 - 18, 2011, Unidad de Biofsica, Leioa, SPAIN

<http://www.fundacionbiofisicabizkaia.org/bilbaobiophysics/>



Description:

Membrane proteins represent one of the best examples where more efforts needed in structural biology. More than a quarter of ORFs in all sequenced genomes code for membrane proteins and nearly 50% of the drug molecules in the market, including many of the 200 best selling drugs, target membrane proteins. In spite of their abundance and importance, only around 200 of more than 60,000 protein structures in the Protein Data Bank represent unique membrane proteins. Membrane proteins are difficult to express, purify and crystallize because of their hydrophobic properties and flexibility. In order to introduce students to the topic of structural biology of membrane proteins, the course will include theoretical lectures, practical sessions and demonstrations.

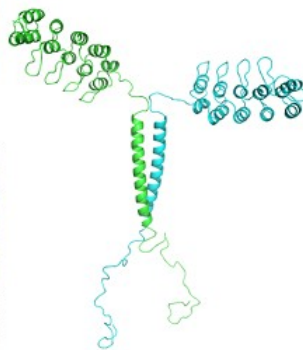
The aim of this course is to introduce students to the topic of structural biology of membrane proteins. The course is mainly for PhD students and postdocs in the field of structural biology with a special interest in membrane proteins.

9th International NCCR Symposium on

New Trends in Structural Biology

1 - 2 September 2011, Zurich, Switzerland

www.structuralbiology.uzh.ch/symposium2011



Description:

This symposium series provides a yearly update on current structural biology themes and newest developments in the field. Renowned structural biology scientists from all over the world exchange their knowledge and current research ideas in an interactive way. The format of the symposium includes plenary lectures by invited guest scientists, discussions and poster presentations by NCCR scientists.

Invited Speakers:

- Steven M. Block**, Stanford University, California
- Jamie H.D. Cate**, University of California, Berkeley
- James J. Chou**, Harvard Medical School, Boston
- Vadim Cherezov**, The Scripps Research Institute, La Jolla, California
- Jennifer A. Doudna**, University of California, Berkeley
- Youxing Jiang**, UT Southwestern, Dallas
- Kaspar Locher**, ETH Zurich, and NCCR
- Alan E. Mark**, University of Queensland, Brisbane
- Ohad Medalia**, University of Zurich, and NCCR
- Tom W. Muir**, The Rockefeller University, New York

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).