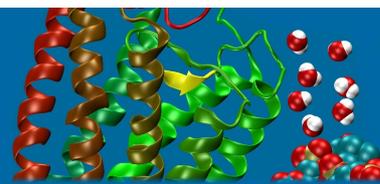


Structural Biology of Membrane Proteins



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

May 2011

Upcoming conferences and workshops in 2011:

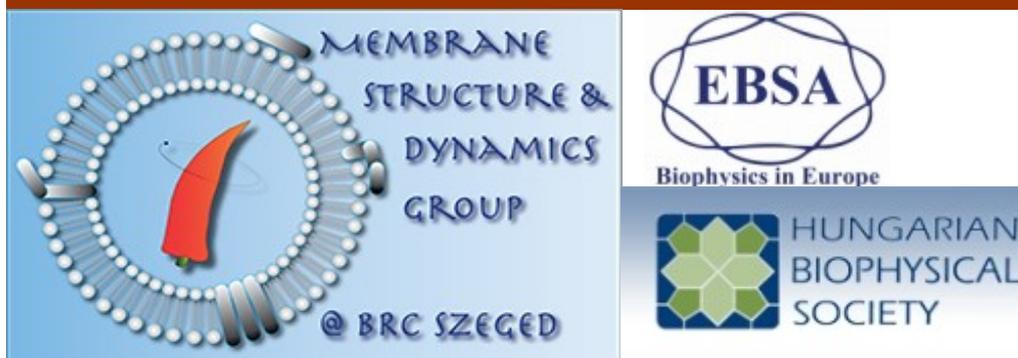
A Satellite Conference of the 8th European Biophysics Congress

Structure, function, folding and assembly of membrane proteins - Insight from Biophysics

27-31 August, 2011

Tata, Hungary

<http://group.szbk.u-szeged.hu/membprot/>



Description:

Membrane proteins represent very important yet challenging research objects in a number of disciplines, since they participate practically in all life processes of the cellular world, e.g. energisation, transport, catalysis, cellular sensing, communication and mechanics. The host lipid matrix presents an amphiphilic environment for both integral and peripheral membrane proteins. On the one hand this reduces the conformational space of membrane proteins. On the other hand, the amphiphilic nature of membrane proteins makes them extremely difficult to study in the absence of their native lipid environment (just compare the abundance of membrane proteins in known genomes with their presence in the protein structure database). Biophysical

approaches address purification, reconstitution, prediction and experimental determination of structure, function, dynamics and folding, physical and molecular modeling of membrane proteins, as well as their interaction with the host membrane.

This conference covers most of these topics, in a greater detail than it is possible in any session of the mother EBSA Congress, in about twenty (40+ minutes) talks from experienced researchers in the field. We will secure plenty of time for discussions, in a friendly, relaxing environment. In addition, we will let a few motivated young researchers bring their project in focus and let other participants and key speakers advice on those projects. We, the organizers are confident that this will be a very nice meeting.

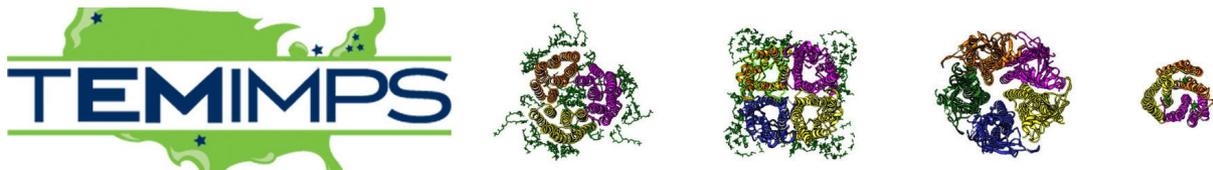
The Transcontinental EM Initiative for Membrane Protein Structure (TEMIMPS)

Workshop in Electron Crystallography

15-19 August, 2011

University of Washington School of Medicine, Seattle, Washington

<http://temimps.nysbc.org/TemimpsWorkshop.html>



Description:

The Transcontinental EM Initiative for Membrane Protein Structure (TEMIMPS) is hosting a workshop in the theory and practice of electron crystallography. Students will get hands-on experience in handling membrane proteins, in their 2D crystallization, as well as in image processing. Sample preparation and data acquisition strategies will be demonstrated and students will have the opportunity to explore their skills in these topics. Recent advances in the field will be presented and discussed.

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).
