

## FOR IMMEDIATE RELEASE

**December 13, 2009** 

# **Biophysical Society Announces Winners of 2010 International Travel Awards**

Bethesda, MD— The Biophysical Society has announced the winners of its international travel grants to attend the Biophysical Society's 54<sup>th</sup> Annual Meeting at the Moscone Convention Center in San Francisco, California February 20-24, 2010. The purpose of these awards is to foster and initiate further interaction between American biophysicists and scientists working in countries experiencing financial difficulties. Recipients of this competitive award are chosen based on scientific merit and their proposed presentation at the meeting. They will be honored at a reception on Sunday, February 21st.

The 2010 recipients of the International Travel Award are:

Luciana Bruno, Universidad de Buenos Aires, Buenos Aires, Argentina, "ANOMALOUS DIFFUSIVE BEHAVIOR IN INTRACELLULAR TRANSPORT MEDIATED BY MOLECULAR MOTORS."

Martha Burgos, National University of Córdoba, Córdoba, Argentina, "PROTEIN OLIGOMERIZATION: THERMODYNAMIC AND STRUCTURAL ANALYSIS OF THE DIMERIZATION OF beta-LACTOGLOBULIN."

Jon Busto, Universidad del País Vasco (UPV/EHU), Leioa, Spain, "CHOLESTEROL DISPLACES CERAMIDE FROM ITS TIGHT PACKING WITH SPHINGOMYELIN."

Renato Cardoso, University of Coimbra, Coimbra, Portugal, "CHARACTERIZATION OF A HOMOLOGOUS SERIES OF FLUORESCENT FATTY AMINES. PHOTOPHYSICS, AQUEOUS SOLUBILITY AND BINDING TO ALBUMIN AND TO POPC BILAYERS."

Bruno Castro, CQB, FCUL, Lisboa, Portugal, "CHOLESTEROL-RICH FLUID MEMBRANES SOLUBILIZE CERAMIDE GEL DOMAINS. IMPLICATIONS FOR THE ORGANIZATION OF MAMMALIAN MEMBRANES."

Tatiana Domitrovic, Instituto de Biofisica Carlos Chagas Filho, UFRJ, Rio de Janeiro, Brazil, "STRUCTURAL BIOLOGY REVEALS A NEW PROTEIN FAMILY FROM S. CEREVISIAE WITH A NOVEL FOLD AND IMPLICATED IN THE METABOLISM CONTROL AND DRUG RESISTANCE."

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## **Publications**

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### Public Affairs

R. John Solaro and Kathleen Hall, Co-Chairs **Svetlana Efimova, Institute of Cytology RAS**, St. Petersburg, Russian Federation, "PHLORETIN AFFECTS THE VOLTAGE GATING OF ALPHA-HEMOLYSIN CHANNEL."

**Hugo Filipe, FCTUC**, Coimbra, Portugal, "NEW METHOD FOR THE MEASUREMENT OF BINDING CONSTANTS FOR AMPHIPHILES WITH A VERY SMALL SOLUBILITY IN AQUEOUS MEDIA."

**Bagavananthem Andavan Gowri Shankar, University of Vienna**, Wien, Austria, "MODULATION OF NAV 1.5 VARIANTS BY SRC TYROSINE KINASE."

**Bilge Guvenc, Hacettepe Medical School**, Ankara, Turkey, "A DYNAMIC APPROACH REVEALS NONMUSCLE MYOSIN INFLUENCES THE OVERALL SMOOTH MUSCLE CROSS-BRIDGE CYCLING RATE."

Alok Jain, Indian Institute of Technology Kanpur, Kanpur, India, "NON-COVALENT INTERACTIONS INVOLVING AROMATIC RESIDUES IN PROTEIN STRUCTURES: STABILITY AND DYNAMICS IN MEMBRANE AND GLOBULAR PROTEINS USING MOLECULAR DYNAMICS SIMULATIONS."

**Anupam Jha, Indian Institute of Science**, Bangalore, India, "A SEARCH FOR ENERGY MINIMIZED SEQUENCES OF PROTEINS."

**Chirlmin Joo, Seoul National University**, Seoul, Republic of Korea, "SINGLE-MOLECULE STUDY ON MICRORNA MACHINERIES: MICRORNA PROCESSING WITH IMMUNOPRECIPITATES AT THE SINGLE-MOLECULE LEVEL."

Morteza Khabiri, Institute of Systems Biology and Ecology, Nove Hrady, Czech Republic, "INFLUENCE OF ORGANIC SOLVENTS ON THE STRUCTURE AND ENZYMATIC ACTIVITY OF HALOALKANE DEHALOGENASE DHAA."

**Olga Kopach, Bogomoletz Institute of Physiology**, Kiev, Ukraine, "IMPAIRED MITOCHONDRIA FAIL TO ENSURE SUSTAINED SOCE: POSSIBLE MECHANISM FOR DECREASED SALIVARY SECRETION UNDER DIABETES."

**Erika Kovacs, Institute of Enzymology,** Budapest, Hungary, "NEW ASPECTS OF LIPID-PROTEIN INTERACTIONS REVEALED BY CALMODULIN BINDING TO THE LIPID MEDIATOR SPHINGOSYLPHOSPHORYLCHOLINE."

Manju Kumari, Indian Institute of Technology, Bombay, Mumbai, India, "EXPLORING THE CONFORMATIONAL SPACE FOR THE INTERACTIONS OF AROMATIC RESIDUE ANALOGS WITH BIOLOGICALLY IMPORTANT SACCHARIDES."

**Ang Li, Singapore-MIT Alliance, National University of Singapore**, Singapore, Singapore, "BINDING KINETICS AND BINDING SITE LOCATIONS OF CYTOADHERENT MOLECULES ON THE SURFACE OF MALARIA INFECTED CELLS."

**Luis Alberto Luévano, UNAM**, Mexico City, Mexico, "IDENTIFICATION OF THE MITOCHONDRIAL CARRIER THAT PROVIDES *YARROWIA LIPOLYTICA* WITH A FATTY ACIDINDUCED AND NUCLEOTIDES- SENSITIVE UNCOUPLING PROTEIN- LIKE ACTIVITY."

**Souvik Modi, National Centre For Biological Sciences**, Bangalore, India, "I-Switch: A DNA NANOMACHINE THAT MAPS SPATIAL AND TEMPORAL PH CHANGES INSIDE LIVING CELLS."

**Aura Moreno-Vega, Universidad Nacional Autónoma de México**, Campus Juriquilla, Querétaro, México "HOW TO USE CONFOCAL MICROSCOPY IN SEARCH OF A HIGHLY RESOLVED HOLOGRAM."

Andrés Nieto-Posadas, Universidad Nacional Autonóma de México, Mexico, Mexico, "INTERACTIONS BETWEEN QUATERNARY AMMONIUMS AND THE GATE OF THE TRPV1 CHANNEL."

**Cesar Oyarce, Universidad de Chile**, Santiago, Chile, "GSK3-β INHIBITION IS INVOLVED IN TESTOSTERONE-INDUCED CARDIAC HYPERTROPHY."

**Tatyana Rokitskaya, Moscow State University**, Moscow, Russian Federation, "EFFECT OF ANTIBACTERIAL PEPTIDE INDOLICIDIN ON THE MEMBRANE PERMEABILITY: CARRIER MECHANISM VERSUS PORE FORMATION."

Eniko Takacs, Institute of Enzymology, BRC, HAS, Budapest, Hungary, "PECULIAR REGULATORY ROLE OF MAGNESIUM IN NUCLEOTIDE HYDROLYSIS OF DUTPASES."

**Zoltan Ujfalusi, University of Pécs**, Pécs, Hungary, "THE EFFECT OF HEAVY MEROMYOSIN ON THE FLEXIBILITY OF FORMIN-BOUND ACTIN FILAMENTS."

Mahalingam Vijayabaskar, Indian Institute of Science, Bangalore, India, "CONSTRUCTION OF ENERGY BASED PROTEIN STRUCTURE NETWORKS: APPLICATION IN THE COMPARATIVE ANALYSIS OF THERMOPHILES AND MESOPHILES."

**Yunxin Zhang, Fudan University**, Shanghai, China, "STEADY STATES OF A TUG-OF-WAR MODEL FOR ORGANELLE TRANSPORT."

The Biophysical Society, founded in 1956, is a professional, scientific society established to encourage development and dissemination of knowledge in biophysics. The Biophysical Society's Annual Meeting is the world's largest meeting of biophysicists -over 6,000 attendees are expected. Over 4000 scientific abstracts have already been submitted for presentation at this event. For more information about the Meeting or the Society's awards, visit <a href="http://www.biophysics.org">http://www.biophysics.org</a> or contact Ellen R. Weiss at (301) 634-7176 or <a href="eweiss@biophysics.org">eweiss@biophysics.org</a>.