



FOR IMMEDIATE RELEASE
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Biophysical Society Announces Winners of 2017 International Travel Awards

Rockville, MD— The Biophysical Society has announced the winners of its international travel grants to attend the Biophysical Society's 61st Annual Meeting in New Orleans, February 11-15, 2017. 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 12 at the Ernest N. Morial Convention Center.

The 2017 recipients of the International Travel Award, along with their institutional affiliation and abstract title, are listed below.

Ana F. Guedes, Institute of Molecular Medicine, Portugal, **ATOMIC FORCE MICROSCOPY AS A TOOL TO EVALUATE THE RISK OF CARDIOVASCULAR DISEASES IN PATIENTS.**

Alvaro Alonso-Caballero, CIC NanoGune, Spain, **A LEGO TOOLBOX FOR ENGINEERING PROTEINS FOR SINGLE MOLECULE FORCE SPECTROSCOPY.**

Raquel Arroyo, University Complutense Madrid, Spain, **STRUCTURAL CHARACTERIZATION OF HUMAN PULMONARY SURFACTANT PROTEIN SP-D BY ATOMIC FORCE MICROSCOPY.**

Karishma Bhasne, Indian Institute of Science Education and Research (IISER) Mohali, **A TALE OF TWO AMYLOIDOGENIC INTRINSICALLY DISORDERED PROTEINS: INTERPLAY OF TAU AND α -SYNUCLEIN.**

Chan Cao, East China University of Science and Technology, **DIRECT IDENTIFICATION OF ADENINE, THYMINE, CYTOSINE AND GUANINE USING AEROLYSIN NANOPORE.**

Adam Cawte, Imperial College London, United Kingdom, **LIVE CELL IMAGING OF GENOMIC LOCI USING FLUORESCENT RNA APTAMERS.**

Venkata Reddy Chirasani, Indian Institute of Technology Madras, **LIPID TRANSFER MECHANISM OF CETP BETWEEN HDL AND LDL: A COARSE-GRAINED SIMULATION STUDY.**

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Felipe de Souza Leite McGill University, Canada, SARCOMERE AND INTER-SARCOMERE DYNAMICS WITHIN SKELETAL MUSCLE MYOFIBRILS.

Assaf Elazar, Weizmann Institute of Science, Israel, DECIPHERING MEMBRANE PROTEIN ENERGETICS USING DEEP SEQUENCING; TOWARDS ROBUST DESIGN AND STRUCTURE PREDICTION OF MEMBRANE PROTEINS.

Manuela Gabriel, University of Buenos Aires, Argentina, 3D ORBITAL TRACKING OF SINGLE GOLD NANOPARTICLES: A NEW APPROACH TO STUDY VESICLE TRAFFICKING IN CHROMAFFIN CELLS.

Farah Haque National Centre for Biological Sciences, India, A NEW HUMANIZED MOUSE MODEL FOR STUDYING INHERITED CARDIOMYOPATHIC MUTATIONS IN THE *MYH7* GENE.

Stephanie Heusser, Stockholm University, Switzerland, STRUCTURAL AND FUNCTIONAL EVIDENCE FOR MULTI-SITE ALLOSTERY MEDIATED BY GENERAL ANESTHETICS IN A MODEL LIGAND-GATED ION CHANNEL.

Amir Irani, Massey University, New Zealand, HOMOGALACTURONANS ILLUMINATE THE ROLE OF COUNTERION CONDENSATION IN POLYELECTROLYTE TRANSPORT.

Olfat Malak, University of Nantes, France, HIV-TAT INDUCES A DECREASE IN I_{KR} AND I_{KS} VIA REDUCTION IN PHOSPHATIDYLINOSITOL-(4,5)-BISPHOSPHATE AVAILABILITY.

Samsuzzoha Mondal, Tata Institute of Fundamental Research, India, OPTICAL PROBES FOR IMAGING SIGNAL MEDIATING PHOSPHOLIPIDS.

Pradeep Sathyanarayana, Indian Institute of Science, STUDYING BINDING, CONFORMATIONAL TRANSITION AND ASSEMBLY OF E.COLI CYTOLYSIN A PORE FORMING TOXIN BY SINGLE MOLECULE FLUORESCENCE.

Li-av Segev-Zarko, Weizmann Institute of Science, Israel, CHARACTERIZATION OF ANTI-BIOFILM PEPTIDE ACTIVITY: A BIOPHYSICAL APPROACH.

Sabrina Sharmin, Shizuoka University, Japan, EFFECTS OF LIPID COMPOSITIONS ON THE ENTRY OF CELL PENETRATING PEPTIDE OLIGOARGININE INTO SINGLE VESICLES.

Xin Shi, East China University of Science and Technology, DIRECT OBSERVATION OF

SINGLE BIOPOLYMER FOLDING AND UNFOLDING PROCESS BY SOLID-STATE NANOPORE.

Luke Springall, University of Kent, United Kingdom, DIRECT SINGLE MOLECULE IMAGING REVEALS HETEROGENEITY IN NUCLEOTIDE EXCISION REPAIR.

Antonio Suma, SISSA, Italy, PORE TRANSLOCATION OF DNA CHAINS WITH PHYSICAL KNOTS.

Omar Alijevic, University of Lausanne, Switzerland, ANALYSIS OF GATING OF ACID-SENSING ION CHANNELS (ASICs) UNDER RAPID AND SLOW PH CHANGES.

Swapna Bera, Bose Institute, India, BIOPHYSICAL INSIGHTS INTO THE MEMBRANE INTERACTION OF THE CORE AMYLOID-FORMING A β 40 FRAGMENT K16-K28 AND ITS ROLE IN THE PATHOGENESIS OF ALZHEIMER'S DISEASE.

Corey Butler, Interdisciplinary Institute for Neuroscience, France, MULTICOLOR 3D SINGLE PARTICLE TRACKING USING SPECTRALLY DISPLACED LOCALIZATION.

Anais Cassaignau, University College London, United Kingdom, STRUCTURAL INVESTIGATION OF AN IMMUNOGLOBULIN DOMAIN ON THE RIBOSOME USING NMR SPECTROSCOPY.

Bappaditya Chandra, Tata Institute of Fundamental Research, India, SECONDARY STRUCTURE FLIPPING CONNECTED TO SALT-BRIDGE FORMATION CONVERTS TOXIC AMYLOID- β ₄₀ OLIGOMERS TO FIBRILS.

Shane Gordon, La Trobe Institute for Molecular Science, Australia, SHARK-DERIVED SINGLE DOMAIN ANTIBODIES TARGETING APOLIPOPROTEIN E.

Ilona Marszalek, Adamed Group, Poland, BIOPHYSICAL STUDIES OF TRAIL-BASED ANTICANCER FUSION PROTEIN AD O51.4.

Gayathri Narasimhan, Cinvestav, Mexico, ANTIHYPERTROPHIC EFFECTS OF DIAZOXIDE INVOLVES CHANGES IN MIR-132 EXPRESSION IN ADULT RAT CARDIOMYCYTES.

Giulia Paci, European Molecular Biology Laboratory, Germany, FOLLOWING A GIANT'S FOOTSTEPS: SINGLE-PARTICLE AND SUPER-RESOLUTION APPROACHES TO DECIPHER THE NUCLEAR TRANSPORT OF HEPATITIS B

VIRUS CAPSIDS.

Bizhan Sharopov, Bogomoletz Institute of Physiology National Academy of Sciences of Ukraine, DISSECTING LOCAL AND SYSTEMIC EFFECTS OF TRPV1 ON BLADDER CONTRACTILITY IN DIABETES.

Chao Sun, East China Normal University, FUNCTION OF BACTERIORUBERIN IN ARCHAERHODOPSIN 4, FROM EXPRESSION TO CHARACTERIZATION.

Sven Warhaut, Goethe University Frankfurt, Germany, LIGAND-DIRECTED CONFORMATIONAL DYNAMICS OF THE ADENINE-SENSING RIBOSWITCH THERMOSTAT.

Matthew Batchelor, University of Leeds, United Kingdom STRUCTURAL DYNAMICS IN THE MYOSIN 7A SINGLE α -HELIX DOMAIN.

Claudia Crocini, LENS, Italy, OPTOGENETICS DESIGN OF MECHANISTICALLY-BASED STIMULATION PATTERNS FOR CARDIAC DEFIBRILLATION.

Daniel Havelka, Czech Academy of Sciences, MICROVOLUME DIELECTRIC SPECTROSCOPY AND MOLECULAR DYNAMICS OF AMINO ACIDS.

Ivan Kadurin, University College London, United Kingdom, INVESTIGATION OF THE PROTEOLYTIC CLEAVAGE OF $\alpha_2\delta$ SUBUNITS: A MECHANISTIC SWITCH FROM INHIBITION TO ACTIVATION OF VOLTAGE-GATED CALCIUM CHANNELS?

Linlin Ma, University of Queensland, Australia, NOVEL HUMAN EAG CHANNEL ANTAGONISTS FROM SPIDER VENOMS.

Ivana Malvacio, University of Cagliari, Italy, MOLECULAR INSIGHTS ON THE RECOGNITION OF SUBSTRATES BY THE PROMISCUOUS EFFLUX PUMP ACRB.

Cristina Moreno Vadillo, Cardiovascular Research Institute Maastricht, Netherlands, RESTORING DEFECTIVE CAMP-DEPENDENT UPREGULATION IN LONG-QT SYNDROME TYPE-1 THROUGH INTERVENTIONS THAT PROMOTE I_{Ks} CHANNEL OPENING.

Melanie Paillard, Claude Bernard University Lyon 1, France, TISSUE-SPECIFIC MITOCHONDRIAL DECODING OF CYTOPLASMIC Ca^{2+} SIGNALS IS CONTROLLED BY THE STOICHIOMETRY OF MICU1/2 AND MCU.

Mohammed Mostafizur Rahman, Institute for Stem Cell Biology and Regenerative Medicine, India, STRESS-INDUCED DIFFERENTIAL REGULATION LEADS TO DECOUPLING OF THE ACTIVITY BETWEEN MPFC AND AMYGDALA.

Marcin Wolny, University of Leeds, United Kingdom, DESIGN AND CHARACTERIZATION OF LONG AND STABLE *DE NOVO* SINGLE α -HELIX DOMAINS.

Elvis Pandzic, University of New South Wales, Australia, VELOCITY LANDSCAPES RESOLVE MULTIPLE DYNAMICAL POPULATIONS FROM FLUORESCENCE IMAGE TIME SERIES.

Pablo Chacon, Spanish National Research Council, TOWARDS A MULTICOMPONENT CRYO-EM DENSITY FLEXIBLE FITTING TOOL.

The Biophysical Society, founded in 1958, is a professional, scientific Society established to encourage development and dissemination of knowledge in biophysics. The Society promotes growth in this expanding field through its annual meeting, monthly journal, and committee and outreach activities. Its 9000 members are located throughout the U.S. and the world, where they teach and conduct research in colleges, universities, laboratories, government agencies, and industry. For more information on these awards, the Society, or the 2017 Annual Meeting, visit www.biophysics.org.

