Biophysical Society

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Biophysical Society Announces Winners of 2016 International Travel Awards

Rockville, MD— The Biophysical Society has announced the winners of its international travel grants to attend the Biophysical Society's 60th Annual Meeting in Los Angeles, California, February 27-March 2, 2016. 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 28 at the Los Angeles Convention Center.

The 2016 recipients of the International Travel Award, along with their institutional affiliation and abstract title, are listed below.

Silvia Acosta-Gutierrez, Cagliari University, Italy, WATER-BASED SCREENING OF ANTIBIOTICS PERMEABILITY.

Matteo Aldeghi, University of Oxford, United Kingdom, PREDICTING LIGAND SELECTIVITY ACROSS BROMODOMAIN FAMILIES.

Sabareesan Ambadi Thody, Tata Institute of Fundamental Research, India, THE PATHOGENIC A116V MUTATION ENHANCES THE SELECTIVE ION-CHANNEL ACTIVITY AND TOXICITY OF THE PRION PROTEIN IN LIVING CELLS.

Shruti Arya, Indian Institute of Science Education and Research, Mohali, WATER IN AMYLOIDOGENIC INTRINSICALLY DISORDERED PROTEINS: INTERPLAY OF CONFORMATIONAL PREFERENCE AND AMYLOID AGGREGATION.

Chaitanya Athale, Indian Institute of Science Education and Research, Pune, COLLECTIVE EFFECTS OF MOTORS AND MICROTUBULES GEOMETRY IN GLIDING ASSAYS.

Navid Bavi, Victor Chang Cardiac Research Institute, Australia, THE N-TERMINAL HELIX ACTS AS A DYNAMIC MEMBRANE COUPLER IN THE GATING CYCLE OF THE MECHANOSENSITIVE CHANNEL MSCL.

Annemie Biesemans, KU Leuven, Belgium, CONTROLLING THE NANOSCOPIC CONFINEMENT OF ENZYMES INSIDE CLYA NANOPORES FOR SINGLE-PROTEIN STUDIES.

Marco Castello, Italian Institute of Technology, BOOST YOUR MICROSCOPE BY EXPLORING NEW DIMENSIONS.

Tao-Hsin Chang, University of Oxford, United Kingdom, STRUCTURAL AND FUNCTIONAL INSIGHTS OF NORRIN MIMICS WNT FOR SIGNALLING.

Pilar Cossio, Max Planck Institute of Biophysics, Germany, ON ARTIFACTS IN SINGLE-MOLECULE FORCE SPECTROSCOPY.

Iván Coto Hernández, Italian Institute of Technology, ADVANCES IN GATED CW STED MICROSCOPY: TOWARD A VERSATILE IMPLEMENTATION.

Florent Delhommel, Pasteur Institute, France, STRUCTURAL STUDY OF WHIRLIN, A CRUCIAL PDZ CONTAINING PROTEIN INVOLVED IN THE MECHANOTRANSDUCTION OF AUDITORY HAIR CELLS.

Wei Ding, Queen Mary University of London, United Kingdom, ATOMISTIC AND COARSE-GRAINED MOLECULAR SIMULATIONS OF MIXED LAMELLAR/NONLAMELLAR LIPID MEMBRANES.

Zeineb Es-Salah-Lamoureux, INSERM U1087/CNRS U6291, A MOLECULAR SUBSTRATE FOR LONG QT IN HIV PATIENTS: TAT PROTEIN REDUCES IKR IN HUMAN INDUCED PLURIPOTENT STEM CELLS-DERIVED CARDIOMYOCYTES.

Barbara Geier, University of Graz, Austria, STRUCTURAL CHARACTERIZATION ON ASYMMETRIC LIPID VESICLES AT SUBNANOMETER RESOLUTION.

Bárbara Gomes, Institute of Molecular Medicine, University of Lisbon, Portugal, THE MECHANISM OF HIV ENTRY INHIBITION BY 25-HYDROXYCHOLESTEROL.

Deepak Hansda, Indian Institute of Technology, Bombay, EFFECT OF BRANCHING ON FORCE-VELOCITY CURVES AND LENGTH FLUCTUATIONS OF ACTIN NETWORKS.

Ivan Haralampiev, Humboldt University of Berlin, Germany, TRACKING THE SWITCH OF INFLUENZA RNA GENESIS BY A NOVEL MULTIPLEXED FISH METHOD IN SINGLE CELLS.

Shiraz Haron-Khun, Sackler Medical School, Tel Aviv University, Israel, SK4 K+ CHANNELS REGULATE SINOATRIAL PACEMAKER AND THEIR BLOCKADE AMELIORATE ARRHYTHMIAS IN CPVT2 PATIENT-DERIVED IPSC AND IN VIVO IN CASQ2 KNOCK-IN AND KNOCK-OUT MICE.

Peter Hasenhuetl, Medical University of Vienna, Austria, DISSECTING THE CATALYTIC CYCLE OF THE SEROTONIN TRANSPORTER.

Barbora Hoffmannova, Comenius University, Slovakia, LOCAL CHARACTER OF RELEASE-DEPENDENT INACTIVATION OF L-TYPE CALCIUM CURRENT.

Rikke Holm, Aarhus University, Denmark, RESCUE OF NA+ AFFINITY IN ASPARTATE-928 MUTANTS OF NA+, K+-ATPASE BY SECONDARY MUTATION OF GLUTAMATE-314.

Ishutesh Jain, Indian Institute of Technology, Bombay, DYNAMIC INSTABILITY EMERGES FROM MICROMECHANICS AND CHEMICAL KINETICS OF MICROTUBULE PROTOFILAMENTS.

Dong-Hwee Kim, Korea University, MECHANICAL REGULATION OF NUCLEAR SHAPE AND VOLUME.

Georg Krainer, Dresden University of Technology, Germany, farFRET: EXTENDING THE RANGE IN SINGLE-MOLECULE FRET EXPERIMENTS BEYOND 10 NM.

Vikash Kumar, York University, Canada, MAGNETIC FOCUSING AND HYDRODYNAMIC DEFLECTION OF MICRO-PARTICLES IN A MICRODEVICE.

Luca Lanzano, Italian Institute of Technology, APPLICATION OF THE SPLIT-FLCS METHOD TO THE DETECTION OF NANOSCALE DIFFUSION IN 3D IN LIVE CELLS.

Bernhard Lehofer, Medical University of Graz, Austria, STRUCTURAL EFFECTS OF HIGH HYDROSTATIC PRESSURE ON HUMAN LOW DENSITY LIPOPROTEIN REVEALED BY SMALL ANGLE X-RAY AND NEUTRON SCATTERING.

Hélène Lyrmann, Saarland University, Germany, MODELING IMMUNE CELL MIGRATION.

Yufuku Matsushita, University of Tokyo, Japan, X-RAY OBSERVATION OF NOVEL NUCLEATION FACTOR IN PROTEIN SUPERSATURATED SOLUTION.

Yadira Medina Guevara, University of Sao Paulo, Brazil, MODELING PROTEIN- DNA INTERACTION ON GROUNDS OF QUANTUM ENTANGLEMENT.

Helen Miller University of York, United Kingdom, DEVELOPING A SINGLE-MOLECULE FLUORESCENCE TOOL TO QUANTIFY DNA DAMAGE.

Yoshitaka Nakayama, Victor Chang Cardiac Research Institute, Australia, THE ROLE OF THE C-TERMINAL DOMAIN ON THE GATING PROPERTIES OF CORYNEBACTERIUM GLUTAMICUM MECHANOSENSITIVE CHANNEL MSCCG.

Yury Nikolaev, Victor Chang Cardiac Research Institute, Australia, MECHANOSENSITIVITY OF TRPC6 ION CHANNEL RECONSTITUTED IN THE LIPOSOMES.

Ruth Norman, University of Leeds, England, METOPROLOL REVERSES β-ADRENERGIC REMODELING IN THE FAILING RIGHT VENTRICLE OF PULMONARY ARTERY HYPERTENSIVE (PAH) RATS.

Michele Oneto, Italian Institute of Technology, 3D MULTICOLOR STED NANOSCOPE A SUPER-RESOLUTION APPROACH TO MAMMALIAN PHOTORECEPTOR.

Reinier Oropesa-Nuñez, Italian Instiute of Technology, SELECTIVE INTERACTION BETWEEN TOXIC AMYLOID OLIGOMERS AND THE CELL MEMBRANE REVEALED BY INNOVATIVE AFM APPLICATIONS.

Rashmi Panigrahi, University of Alberta, Canada, UNDERSTANDING STRUCTURAL AND FUNCTIONAL STABILITY OF TWO RHOMBOID PROTEASES: HIGLPG AND PSAARA.

Luca Ponzoni, International School for Advanced Studies, Italy, SPECTRUS: A DIMENSIONALITY REDUCTION APPROACH FOR IDENTIFYING DYNAMICAL DOMAINS IN PROTEIN COMPLEXES FROM LIMITED STRUCTURAL DATASETS.

Anam Qudrat, University of Toronto, Canada, MODULAR ASSEMBLY OF SYNTHETIC PROTEINS THAT SPAN THE PLASMA MEMBRANE IN MAMMALIAN CELLS.

Patrice Rassam, University of Oxford, United Kingdom, UNRAVELING THE OUTER MEMBRANE TRANSLOCATION MECHANISM OF A PROTEIN ANTIBIOTIC USING SINGLE-MOLECULE MICROBIOLOGY AND COMPUTATIONAL BIOPHYSICS.

Caterina Ricci, Marche Polytechnic University, Italy, STRUCTURE AND STABILITY OF HSP60 AND GROEL IN SOLUTION.

SS Soumya, Indian Institute of Technology, Bombay, COHERENT MOTION OF MONOLAYER SHEETS UNDER ACTIVE AND PASSIVE CONFINEMENT: FROM BUILD-UP TO CONSEQUENCE.

Masihuz Zaman, Aligarh Muslim University, India, BIOPHYSICAL INSIGHT OF DNA INDUCED AGGREGATION OF STEM BROMELAIN.

Zhaokun Zhou, University of York, United Kingdom, COMBINED MAGNETO-OPTICAL TWEEZERS AND SUPER-RESOLUTION FLUORESCENCE IMAGING FOR PROBING DYNAMIC SINGLE-MOLECULE TOPOLOGY OF DNA, AND PROTEIN MACHINES THAT MANIPULATE DNA TOPOLOGY.

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 2016 Annual Meeting, visit www.biophysics.org.