



FOR IMMEDIATE RELEASE

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Biophysical Society Announces Winners of 2018 International Travel Awards

Rockville, MD— The Biophysical Society has announced the winners of its international travel grants to attend the Biophysical Society's 62nd Annual Meeting in San Francisco, California, February 17-21, 2018. 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 18 at the Moscone Center.

The 2018 recipients of the International Travel Award, along with their institutional affiliation and abstract title, are listed below.

Zainab Ahdash, King's College, London, MECHANISTIC INSIGHT INTO THE ASSEMBLY OF THE HERA-NURA HELICASE-NUCLEASE DNA END RESECTION COMPLEX USING NATIVE MASS SPECTROMETRY

Chiara Autilio, Complutense University of Madrid, EFFECT OF HYPOTHERMIA ON THE BIOPHYSICAL PERFORMANCE OF PULMONARY SURFACTANT FROM NEONATES WITH AND WITHOUT LUNG INJURY

Deniz Aydin, Swiss Institute of Technology Lausanne (EPFL), A COMBINED COMPUTATIONAL AND EXPERIMENTAL STUDY TO INVESTIGATE THE ROLE OF COQ9 IN PROMOTING COENZYME Q BIOSYNTHESIS

Gaurav Bajpai, Indian Institute of Technology Bombay, DNA-BENDING NON-HISTONE PROTEINS CAN MAKE CHROMATIN IRREGULAR AND MORE COMPACT

Sreenath Balakrishnan, Indian Institute of Science, HEPATITIS C VIRUS ALTERS NUCLEAR MECHANICS BY DOWN-REGULATING LAMIN A/C

Zsofia Bata, Budapest University of Technology and Economics, BIOACTIVE 3D STRUCTURE OF PHENYLALANINE AMMONIA-LYASE REVEAL KEY INSIGHTS INTO LIGAND BINDING DYNAMICS

Pablo Carravilla, University of the Basque Country, SINGLE VIRION SUPER-RESOLUTION MICROSCOPY UNVEILS MECHANISTIC DETAILS OF ENV GLYCOPROTEIN RECOGNITION BY THE BROADLY NEUTRALIZING HIV-1 ANTIBODIES 4E10 AND 10E8

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Jose Castillo-Sanchez, Complutense University of Madrid, LOOKING FOR
GROUNDBREAKING STRUCTURAL AND FUNCTIONAL FEATURES IN THE
LUNG SURFACTANT SYSTEM USING A SURFACE-ACTIVE AGENT PURIFIED
FROM HUMAN AMNIOTIC FLUID

Francesca Cella Zancchi, Italian Institute of Technology (IIT), QUANTITATIVE
SUPER-RESOLUTION MICROSCOPY USING DNA ORIGAMI

Jung Ho Chun, Yonsei University, South Korea, SPECIFIC INTERACTIONS AND
VISUALIZATION ANALYSIS OF PROTEIN-PROTEIN INTERACTION BETWEEN
HUMAN PROGRAMMED DEATH 1 (PD-1), AND ITS LIGAND 1 (PD-L1), WITH
AB INITIO FRAGMENT MOLECULAR ORBITAL METHOD

Mathias Clausen, University of Southern Denmark, THE MICROSCOPIC STRUCTURE
OF CRUNCHY AND CRISPY JELLYFISH

Madhura De, German Cancer Research Center (DKFZ), THE OTHER HISTONE:
PROBING THE ROLE OF LINKER HISTONE IN A CHROMATOSOME

Melody Di Bona, Italian Institute of Technology, PROBING CHROMATIN
ORGANIZATION BY SORTING OF SHORT SEQUENCE FLUORESCENCE
CORRELATION SPECTROSCOPY

Priyanka Dogra, Indian Institute of Science, PROTON-INDUCED SWITCHING OF AN
INTRINSICALLY DISORDERED DOMAIN OF A MELANOSOMAL PROTEIN
INTO A POLYMORPHIC FUNCTIONAL AMYLOID

Valentin Dunsing, University of Potsdam, Germany, DIRECT EVIDENCE OF APLP1
TRANS INTERACTIONS IN CELL-CELL ADHESION PLATFORMS
INVESTIGATED VIA FLUORESCENCE FLUCTUATION SPECTROSCOPY

Barbara Eicher, University of Graz, Austria, CURVATURE-MEDIATED
TRANSMEMBRANE COUPLING IN ASYMMETRIC LIPID VESICLES

Eli (Ilya) Elyas, Linköping University, Sweden, MEASUREMENT OF FLUID
MOVEMENT IN SCALA VESTIBULI

Haig Eskandarian, École Polytechnique Dédérale de Lausanne, Switzerland,
REVEALING BACTERIAL SURFACE PHYSIOLOGY USING DUAL ATOMIC
FORCE AND OPTICAL TIME-LAPSE MICROSCOPY

Francesco Gentile, University of Alberta, INVESTIGATING THE STRUCTURE OF
THE XPF-ERCC1 FUNCTIONAL ENDONUCLEASE USING A COMPUTATIONAL
APPROACH

David Gnutz, Ruhr University Bochum, Germany, SOD1 FOLDING MODULATION IN
THE CROWDED CELL

Sebastian Himbert, McMaster University, Canada, THE MOLECULAR STRUCTURE OF HUMAN RED BLOOD CELL MEMBRANES FROM HIGHLY ORIENTED, SOLID SUPPORTED MULTI-LAMELLAR MEMBRANES

Hadeel Khamis, Technion, Israel Institute of Technology, SINGLE-MOLECULE DNA UNZIPPING REVEALS ASYMMETRIC MODULATION OF THE TRANSCRIPTION FACTOR EGR-1 BY ITS BINDING SITE SEQUENCE AND CONTEXT

Shruti Khare, Indian Institute of Science, MUTANT PHENOTYPE PREDICTION AND MODEL DISCRIMINATION USING DEEP SEQUENCING DATA

DONGHWEE KIM, Korea University, LAMIN A/C GUIDED NUCLEAR MECHANOTRANSDUCTION

Yoel Klug, Weizmann Institute of Science, Israel, HIV GP41 ENVELOPE PROTEIN EARLY AND LATE MEMBRANE FUSION STAGES ARE IMPAIRED BY A SPHINGANINE BASED LIPO-PEPTIDE

Nidhi Kundu, Indian Institute of Science Education and Research, Mohali, EXPLORING A NOVEL OLIGOMERIZATION MECHANISM OF THERMOSTABLE DIRECT HEMOLYSIN, A PORE-FORMING PROTEIN

Fabio Lolicato, University of Helsinki, Finland, INITIAL STEPS IN THE PI(4,5)P2 DEPENDENT FIBROBLAST GROWTH FACTOR 2 OLIGOMERIZATION

Julene Madariaga-Marcos, Spanish National Center for Biotechnology, LATERAL MAGNETIC TWEEZERS TO STUDY DNA:PROTEIN INTERACTIONS

Barun K. Maity, Tata Institute of Fundamental Research, India
DYNAMICS BASED DRUG DESIGN FOR INTRINSICALLY DISORDERED PROTEINS

Haydee Mesa Galloso, University of Calgary, Canada, UNDERSTANDING THE PORE-FORMING MECHANISM OF PEPTIDES DERIVED FROM THE N-TERMINUS OF STICHOLYSIN

Lukas Milles, Ludwig Maximilian University of Munich, Germany,
DECONSTRUCTING THE SINGLE MOLECULE MECHANICS OF AN
ULTRASTABLE PATHOGEN ADHESIN

Roumita Moulick, National Centre for Biological Sciences, India, pH-INDUCED FRUSTRATION IN THE FREE ENERGY LANDSCAPE DICTATE MISFOLDING OF THE PRION PROTEIN

Wieslaw Nowak, Nicolaus Copernicus University, Poland, PHOTOSWITCHABLE DRUGS AND INSULIN RELEASE:MOLECULAR EVENTS IN EPAC2A PROTEIN

Rosemary Nyamboya, King's College London, EVOLUTION OF ANTIBODY

STRUCTURE AND FUNCTION THROUGH STUDIES OF IgE AND IgM

Paula Perez, IMSaTeD, Argentina, REGULATION OF CILIARY LENGTH IN LLC-PK1 RENAL EPITHELIAL CELLS

Irene Pertici, University of Florence, Italy, THE POWER OF A SYNTHETIC MACHINE BASED ON THE FAST MYOSIN ISOFORM OF SKELETAL MUSCLE

Adolfo Poma, Polish Academy of Sciences, GENERALIZATION OF THE ELASTIC NETWORK MODEL FOR THE STUDY OF LARGE CONFORMATIONAL CHANGES IN PROTEINS

Arne Raasakka, University of Bergen, Norway, FLEXIBILITY OF THE MYELIN SCAFFOLDING PROTEIN PERIAxin

Hyuni Ryu, Inha University, South Korea, DETECTION OF BACILLUS THURINGIENSIS HD-73 SPORES USING PROTEIN NANOPORES AND COMPLEMENTARY APTAMERS WITH DNA HAIRPIN PROBES

Neelanjana Sengupta, Indian Institute of Science Education and Research (IISER), Kolkata, EFFECT OF HYPERGLYCEMIC CONDITIONS ON THE EARLY SELF-ASSEMBLY OF THE ALZHEIMER'S AMYLOID BETA PEPTIDE: IMPLICATIONS FOR NEUROTOXICITY

Haitham Shaban, Laboratory of Eukaryotic Molecular Biology, France, CBI HIGH-RESOLUTION MAPPING OF CHROMATIN DYNAMICS DURING TRANSCRIPTION IN MAMMARY TUMOR CELLS

Jai Singh, Indian Institute of Technology Bombay, UNDERSTANDING THE STRUCTURAL BASIS OF RECOGNITION BETWEEN PLASMODIUM FALCIPARUM AND HUMAN SUMOYLATION MACHINERY

Maria Tsemperouli, University of Geneva, Switzerland, FREE-STANDING LIPID BILAYERS: A VERSATILE PLATFORM FOR THE MECHANISTIC STUDIES OF VOLTAGE SENSITIVE DYES AND MEMBRANE ION TRANSPORT

Tayana M. Tsubone, University of São Paulo, Brazil, EFFECTS OF TPPS2a-PHOTOSENSITIZATION LYSOSOMAL MEMBRANES

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 2018 Annual Meeting, visit www.biophysics.org.

