

FOR IMMEDIATE RELEASE

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Biophysical Society Announces Winners of 2013 Education Committee Travel Awards

Rockville, MD— The Biophysical Society has announced the winners of its Education Committee travel award to attend the Biophysical Society's 57th Annual Meeting at the Pennsylvania Convention Center in Philadelphia, February 2-26, 2013. The recipients of this competitive award, all of whom are students and postdoctoral fellows, are selected based on scientific merit. Each awardee will be presenting their research during the meeting, will receives a travel grant, and will be recognized at a reception on Saturday, February 2.

The 2013 recipients of the Education Committee Travel Award are:

Rayna Addabbo, University of Wisconsin, Madison, "EXPLORING THE KINETICS OF PROTEIN BIRTH"

Ruchika Bajaj, Purdue University, "STRUCTURAL MECHANISM OF ACTION OF BINDING PROTEIN INDEPENDENT MUTANT MALG511 OF ESCHERICHIA COLI MALTOSE TRANSPORTER"

Nicholas Bellono, Brown University, "ULTRAVIOLET LIGHT PHOTOTRANSDUCTION ACTIVATES TRPA1 TO MEDIATE MELANIN SYNTHESIS IN HUMAN MELANOCYTES"

Lauren Bittner, Eastern Virginia Medical School, "ENGINEERING OF THE MYOSIN VIIA NUCLEOTIDE-BINDING POCKET TO CREATE SELECTIVE SENSITIVITY TO N6-MODIFIED ADP ANALOG"

Joan Bleecker, University of Washington, "TERNARY MODEL MEMBRANE SYSTEM WITH THICKER LIQUID DISORDERED PHASES, CONFIRMED WITH ATOMIC FORCE MICROSCOPY AND FLUORESCENCE MICROSCOPY"

Sofya Borinskaya, University of Connecticut, "CLUSTERS OF ARP2/3 ACTIVATORS MIMIC PATHOGENIC ACTIN COMETS AND PEDESTALS"

Irena Bronshtein, Bar Ilan University, Ramat Gan, Israel, "STUDY OF NUCLEAR ORGANIZATION THROUGH THE DYNAMIC PROPERTIES OF CHROMATIN"

Sherry-Ann Brown, Mayo Clinic, "POETIC SCIENCE: ENRICHING THE BIOPHYSICS AND SYSTEMS BIOLOGY EXPERIENCE"

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Ping Cao, Stony Brook University, "TOXIC INTERMEDIATES IN ISLET AMYLOID FORMATION: ANALYSIS OF IAPP MUTANTS REVEALS A CORRELATION BETWEEN LAG TIME AND TOXICITY"

Stephanie Cope , Arizona State University, "EFFECT OF PROLINES ON THE INTRINSIC STIFFNESS OF ISLET AMYLOID POLYPEPTIDE VARIANTS"

Lucia Chen, King's College London, United Kingdom, "USING FRET TO CHARACTERIZE THE ACTOMYOSIN COMPLEX IN CARDIAC MUSCLE"

Emel Ficici, University of California, Irvine, "BIOMIMETIC STRATEGY FOR NANOPARTICLE SLIDING ON DNA TRACKS"

Silvia Galiani, Italian Institute of Technology, Genova, "STED MICROSCOPE OPTIMIZATION: NEUROSCIENCE APPLICATIONS"

Hannah Gelman, University of Illinois, "EARLY EVENTS OF THE HEAT SHOCK RESPONSE"

Borna Ghosh, University of Wisconsin, Madison, "PROPOFOL INDUCED STRUCTURAL CHANGES IN THE TMD OF THE PROKARYOTIC PLGIC GLIC"

Mark Hallen, Duke University Medical Center, "INCREASED MECHANICAL OUTPUT BY A KINESIN MUTANT"

Michael Harman, University of Arizona, "THE COMPUTATIONAL ANALYSIS OF SPIROCHETE MOTILITY IN VISCOUS FLUIDS: MIMICKING HOST RESERVOIR MICRO-ENVIRONMENTS"

Charles Herring, University of North Carolina, Charlotte, "THERMODYNAMIC STABILITY AND FLEXIBILITY OF CXC CHEMOKINES"

Jay Howard, Willamette University, "EXPLORING THE FORCE-SENSITIVITY OF ACANTHAMOEBA MYOSIN 1C FUNCTION"

Nadir Ijaz, Duke University, "KINESIN-14 NCD MICROTUBULE ROTATIONAL MOTILITY: A MATHEMATICAL MODEL"

Babu Reddy Janakaloti Narayanareddy, University of California, Irvine, "DYNAMIC FORCE ADAPTATION OF LIPID DROPLETS DURING INTRACELLULAR TRANSPORT IN COS1 CELLS."

Vinod Jyothikumar, University of Virginia, "LABEL FREE FLUORESCENCE LIFETIME FRET IMAGING"

Rudra Kafle, University of Michigan, "CONFORMATIONAL FLUCTUATIONS OF CHROMOSOMAL DNA IN ESCHERICHIA COLI"

John Kang, Carnegie Mellon University, "MODELING MECHANOTRANSDUCTION SIGNALING THROUGH ACTIN FILAMENT NETWORK DEFORMATION LINKED TO BIOCHEMICAL RESPONSE"

Jacob Kinnun, Indiana University-Purdue University Indianapolis, "MEMBRANE STRUCTURE AND INTERMEMBRANE FORCES OBSERVED WITH SMALL ANGLE X-RAY SCATTERING."

Julian Klosowiak, Northwestern University, "MIRO: A DRIVER OF THE KINESIN MOTOR"

Anthony Kovacs, Washington University St. Louis, "SINGLE-MOLECULE INVESTIGATION OF THE INTRAFLAGELLAR TRANSPORT OF MEMBRANE SIGNALING PROTEINS"

Guruprasad Kuntamallappanavar, University of Tennessee, "ACTIVATING ION DETERMINES DIFFERENTIAL ETHANOL-SENSITIVITY OF SLO FAMILY CHANNELS"

Jung Ho Lee, University of Wisconsin, Madison, "INTERACTION OF RNASE HD AND SH3 PROTEINS WITH DNAK MOLECULAR CHAPERONE"

Xiaoling Leng, Indiana University-Purdue University Indianapolis, "INTERACTION OF α-TOCOPHEROL WITH A POLYUNSATURATED LIPID STUDIED BY MD SIMULATIONS"

King-Lun Li, Washington State University, "THE CA2+-INDUCED STRUCTURAL CHANGES IN TROPONIN IN-SITU AND IN-VITRO: A FRET STUDY IN PERMEABILIZED CARDIAC MUSCLE FIBERS AND RECONSTITUTED THIN FILAMENTS"

Svenja Lippok, Ludwig Maximilian University of Munich, Germany, "SIZE DISTRIBUTION ANALYSIS OF VON WILLEBRAND FACTOR"

Yi Luo, Ohio State University, "NUCLEOSOME REWRAPPING FACILITATES TRANSCRIPTION FACTOR EXCHANGE"

Amruta Mahadik, Texas Womans University, "RELATIVE AFFINITY OF VCA DOMAIN OF WAVE TO ACTIN, ARP3, AND ARP2 USING MOLECULAR DYNAMICS SIMULATIONS"

Kristine Manibog, Iowa State University, "RESOLVING CADHERIN CATCH BOND FORMATION AT THE SINGLE MOLECULE LEVEL"

Dagan Marx, University of Iowa, "TWO CLASSES OF CALMODULIN BINDING TO IQ MOTIFS OF VOLTAGE-GATED SODIUM CHANNELS"

Logan Meyer, James Madison University, "LOW RESOLUTION STRUCTURE OF IG DOMAINS 58 AND 59 OF OBSCURIN USING SMALL ANGLE X-RAY SCATTERING"

Mahmoud Moradi, University of Illinois, Urbana Champaign, "OUTWARD- TO INWARD-FACING TRANSITION OF MSBA TRANSPORTER: A MECHANISTIC PICTURE AT ATOMIC RESOLUTION"

Justin Morse, Boston University, "CALCIUM HANDLING DEFICITS INDUCED BY SYSTEMIC INFLAMMATORY MEDIATORS IN RAT CARDIOMYOCYTES"

Kamalika Mukherjee, State University of New York at Binghamton, "HIGH-THROUGHPUT SCREENING ASSAY FOR MODULATORS OF TUBULIN TYROSINE LIGASE"

Hansini Mundigala, Wayne State University, "A NOVEL BENT INTERMEDIATE IN THE DIMERIZATION OF HIV-1 DIS RNA"

Abhinav Nath, Yale University, "SCREENING AND DESIGN OF NEW MODULATORS OF IAPP MEMBRANE-BINDING AND TOXICITY"

Thuy Ngo, University of Illinois, Urbana Champaign, "ASYMMETRIC UNWRAPPING OF NUCLEOSOME REVEALED BY SINGLE MOLECULE FLUORESCENCE-FORCE SPECTROSCOPY"

Stephen Norris, University of Michigan, "A BIOSYNTHETIC APPROACH TO STUDYING MULTIPLE MOTOR COMPLEXES"

John Ogren, Boston University, "NEAR-IR RESONANCE RAMAN AND UV-VISIBLE ABSORPTION KINETIC SPECTROSCOPY OF OPTOGENETIC ARCHAERHODOPSIN NEURONAL SILENCERS: EFFECTS OF MEMBRANE POTENTIAL"

María Queralt-Martín, James I University, Castellón de la Plana, Spain, "CURRENT FLUCTUATION ANALYSIS TO STUDY Mg2+-BINDING IN THE BACTERIAL PORIN OmpF"

Nandini Rambahal, University of Texas Health Science Center, "CONFORMATIONAL DYNAMICS OF RAS ISOFORMS: SPECIFICITY AT THE CATALYTIC DOMAIN"

Darya Redka, University of Toronto, Canada, "FUNCTIONAL COMPARISON OF MONOMERS AND TETRAMERS OF THE M2 MUSCARINIC RECEPTOR"

Erin Richards, Pennsylvania State University, "A NOVEL AND VERSATILE APPROACH FOR PREPARATION OF SINGLE-VESICLE ARRAYS"

Jacqueline Robinson-Hamm, University of Washington, "INCREASED FATIGUE RESISTANCE OF SKELETAL MUSCLE WITH ELEVATED 2-DEOXY-ATP FOLLOWING RIBONUCLEOTIDE REDUCTASE OVEREXPRESSION"

Raghavendar Reddy Sanganna Gari, University of Missouri, "SINGLE MOLECULE STUDIES OF THE GENERAL SECRETORY SYSTEM"

Christine Scheve, University of Texas at Austin, "STERIC PRESSURE BETWEEN PROTEINS OPPOSES MEMBRANE PHASE SEPARATION"

William Schlecht, Washington State University, "STRUCTURAL AND KINETIC STUDIES USING FRET: IMPACT OF PSEUDO-PKC PHOSPHORYLATION OF CARDIAC TROPONIN T ON CALCIUM-ACTIVATED THIN FILAMENT REGULATION"

Samuel Schneider, Hobart and William Smith Colleges, "MACROMOLECULAR CROWDING EFFECTS ON THE ENZYME KINETICS OF ALCOHOL DEHYDROGENASE"

Eugene Serebryany, Massachusetts Institute of Technology, "AGGREGATION OF TRP>GLU MUTANTS OF THE HUMAN GAMMA-D CRYSTALLIN: A MODEL FOR HEREDITARY OR UV-INDUCED CATARACT"

Nitesh Shashikanth, University of Illinois, Urbana Champaign, "ALLOSTERIC MODULATION OF CADHERIN AFFINITY"

Jia Shu, Harvard University, "ISOTROPIC 3D SUPER RESOLUTION IMAGING WITH SELF-BENDING POINT SPREAD FUNCTION"

Naama Sleiman, Wayne State University, "PROTEIN COMPONENTS OF THE RYANODINE RECEPTOR COMPLEX TRAFFIC DIRECTLY FROM ROUGH ER TO CONCENTRATE IN JUNCTIONAL SR"

Snezana Stefanovic, Duquesne University, "PSD-95 MRNA TRANSLATION REGULATION BY THE FRAGILE X MENTAL RETARDATION PROTEIN"

Samuel Sternberg, University of California, Berkeley, "SINGLE-MOLECULE OBSERVATION OF VIRAL DNA TARGETING BY CRISPR/CAS IMMUNE SYSTEMS"

Kaori Sugihara, Max Planck Institute, Göttingen, Germany, "SYNTHETIC LIPID NANOTUBES AS CELL-CELL JUNCTIONS FOR INTER-CELLULAR CA+ PROPAGATION AND FOR CELL CONTRACTION MONITORING"

Michal Szymanski, University of Texas, Medical Branch, "UNRAVELING THE MECHANISM OF THE PRIMOSOME ASSEMBLY PROCESS"

Rajeev Tajhya, Baylor College of Medicine, "ROLE OF POTASSIUM CHANNELS IN MYOGENESIS DURING MYOTONIC DYSTROPHY TYPE 1"

Alexandra Tomescu, University of Oxford, United Kingdom, "CHARACTERIZING INFLUENZA A RNA POLYMERASE - PROMOTER INTERACTION USING ENSEMBLE FLUORESCENCE SPECTROSCOPY"

Jaakko Uusitalo, University of Groningen, Netherlands, "COVERING ALL THE BASES: A MARTINI COARSE-GRAINED FORCE FIELD FOR DNA"

Dennisse Vallejo, University of San Francisco in Quito, School of Medicine, Ecuador, "ZIPPER LIKE STRUCTURES POSSIBLE INTERMEDIATES TO ASSEMBLE DUPLEX MEDIATED G-QUADRUPLEX DNA"

Anna Wirth, University of Illinois, Urbana Champaign, "PROTEIN FOLDING ACROSS THE CELL CYCLE"

Hao Yu, University of Alberta, Edmonton, Canada, "MULTISTEP PATHWAY TO STABLE MISFOLDED STRUCTURES OBSERVED IN SINGLE PRION PROTEIN DIMERS BY FORCE SPECTROSCOPY"

Kai Zhang, Stanford University, "LIGHT-CONTROLLED MITOGEN-ACTIVATED PROTEIN KINASE (MAPK) SIGNALING PATHWAY IN LIVE CELLS"

Xin Zhou, Stanford University, "OPTICAL CONTROL OF PROTEIN ACTIVITY BY FLUORESCENT PROTEIN DOMAINS"

The Biophysical Society, founded in 1957, 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 2013 Annual Meeting, visit www.biophysics.org.