



**FOR IMMEDIATE RELEASE**

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**Biophysical Society Announces Winners of the 2018 SRAA Poster Competition**

The 24 winners of the annual Student Research Achievement Awards were recognized at the 62<sup>nd</sup> Annual Meeting Awards Ceremony on February 19. These students were selected by judges from the Society's subgroups for their outstanding presentations during the poster competition. One hundred and eighty-eight students participated in the competition. The winners are:

**Bioenergetics**

Zhiyu Zhao, University of Illinois at Urbana-Champaign

*MICROSCOPIC VIEW OF THE OUTWARD- TO INWARD-FACING TRANSITION PATHWAY OF THE HUMAN DOPAMINE TRANSPORTER.*

**Bioengineering**

Alexander Komin, Johns Hopkins University

*CELL-PENETRATING PEPTIDE FOR TRANSCELLULAR TRANSPORT: THE EFFECT OF PHYSICO-CHEMICAL PROPERTIES ON PERMEABILITY.*

Dana Reinemann, Vanderbilt University

*BIO-FUNCTIONALIZED CORE-SHELL MICROPARTICLES FOR HIGH FORCE OPTICAL TRAPPING.*

**Biological Fluorescence**

Giancarlo Bruni, University of Colorado Boulder

*DECIPHERING THE ROLE OF BACTERIAL ELECTROPHYSIOLOGY IN MECHANOSENSATION.*

**Biopolymers in Vivo**

Shunshi Kohyama, Keio University, Japan

*CELL-SPACE CONFINEMENT EFFECTS ON MIN PROTEIN WAVES INSIDE MICRODROPLETS.*

**Cryo-EM**

Mengyu Wu, The Scripps Research Institute

*PUSHING SIZE AND RESOLUTION LIMITS OF SINGLE PARTICLE CRYO-EM AT 200 KEV.*

**Exocytosis & Endocytosis**

Ani Nichol, Brigham Young University

*CONFORMATIONAL CHANGES OF SNAP-25 DUE TO ENVIRONMENTAL CONDITIONS.*

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**Intrinsically Disordered Proteins**

Shannon Esswein, University of California, Los Angeles

*IDENTIFICATION OF SEGMENTS IN VARIABLE DOMAINS OF IG LIGHT CHAINS THAT DRIVE FORMATION OF AMYLOID FIBRILS.*

**Mechanobiology**

Debadrita Modak, Ohio State University

*RESOLVING THE MECHANISM OF ADHESION MEDIATED BY A NON-CLUSTERED DELTA-1 PROTOCADHERIN.*

**Membrane Biophysics**

Estefania Barreto-Ojeda, University of Calgary, Canada

*LIPID BINDING AND LIPID-UPTAKE IN P-GLYCOPROTEIN: COMPARISON OF THE INWARD- AND OUTWARD-FACING CONFORMATION.*

Nidhi Kundu, Indian Institute of Science Education and Research, Mohali, India

*EXPLORING A NOVEL OLIGOMERIZATION MECHANISM OF THERMOSTABLE DIRECT HEMOLYSIN, A PORE-FORMING PROTEIN.*

Wandi Zhu, Washington University in St. Louis

*MOLECULAR BASIS OF MEXILETINE RESPONSE VARIABILITY IN SODIUM CHANNELS WITH LONG QT MUTATIONS.*

**Membrane Structure and Assembly**

Deniz Aydin, École Polytechnique Fédérale de Lausanne, Switzerland

*A COMBINED COMPUTATIONAL AND EXPERIMENTAL STUDY TO INVESTIGATE THE ROLE OF COQ9 IN PROMOTING COQ BIOSYNTHESIS.*

Adree Khondker, McMaster University, Canada

*MEMBRANE CHOLESTEROL REDUCES POLYMYXIN B NEPHROTOXICITY IN RENAL MEMBRANE ANALOGUES.*

Younghoon Oh, Sogang University, South Korea

*LATERAL DIFFUSIVITY OF CHOLESTEROL DEPENDS ON ITS SPATIAL ARRANGEMENT IN LIPID MEMBRANES.*

**Molecular Biophysics**

Sudipta Lahiri, Wesleyan University

*HOMOLOGY MODELING AND STRUCTURAL ANALYSIS OF S. CEREVISIAE MSH4 AND MSH5 PROVIDE INSIGHT INTO DNA BINDING AND SPECIFICITY.*

Madlen Luckner, Humboldt University of Berlin

*OLIGOMERIZATION AND NUCLEAR SHUTTLING DYNAMICS OF VIRAL PROTEINS STUDIED BY QUANTITATIVE MOLECULAR BRIGHTNESS ANALYSIS USING FLUORESCENCE CORRELATION SPECTROSCOPY.*

Md. Mahfuzur Rahman, University of Hyogo, Japan

*CRYSTAL STRUCTURE OF A BACTERIAL ABC HEME EXPORTER IN THE APO FORM.*

Pradeep Sathyanarayana, Indian Institute of Science, India

*CHOLESTEROL PROMOTES CYTOLYSIN A ACTIVITY BY STABILIZING THE INTERMEDIATES*

*DURING PORE FORMATION.*

**Motility & Cytoskeleton**

Jeffrey Moore, University of Colorado Boulder

*ORGANIZATION AND DYNAMICS OF GLIDING FLEXIBLE FILAMENTS.*

**Nanoscale Biophysics**

Yuan-I Chen, The University of Texas at Austin

*MEASURING OLIGONUCLEOTIDE HYBRIDIZATION KINETICS IN SOLUTION USING A TIME-RESOLVED 3D SINGLE-MOLECULE TRACKING TECHNIQUE.*

Sonisilpa Mohapatra, University of Wisconsin-Madison

*GROWTH PHASE DEPENDENT EFFECTS ON SPATIAL DISTRIBUTION OF E. COLI CHROMOSOMES AND RIBOSOMES.*

**Permeation & Transport**

Adela Krizova, Johannes Kepler University Linz, Austria

*INTERPLAY OF CRAC CHANNELS WITH  $Ca^{2+}$  ACTIVATED  $K^+$  CHANNELS.*

Zhenning Ren, Baylor College of Medicine

*CRYSTAL STRUCTURE OF AN EIIC TRAPPED IN AN INWARD-FACING CONFORMATION.*

*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's Annual Meetings, visit [www.biophysics.org](http://www.biophysics.org).*