Registration
Join the Society or renew your membership for 2023 to:
• Submit or sponsor an Annual Meeting abstract
• Pay reduced registration rates and save up to $275
• Apply for Annual Meeting Travel Awards and Family Care Grants
• Apply to poster competitions

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Important Deadlines
Abstracts
Abstract Submission: October 1, 2022
Abstract Revision and Withdrawal: October 5, 2022

Competitions
Student Research Achievement Awards (SRAA): October 5, 2022
Undergraduate Poster Awards (UPAC): January 5, 2023

Registration
Early Registration: July 1, 2022–January 5, 2023
Regular Registration: January 6–February 22, 2023

Travel Awards
Available for students, postdoctoral researchers, and scientists of all career levels. We strongly encourage members from all geographic locations, underrepresented communities, and at all career levels to apply. Applications will be evaluated by the Society’s committees for Inclusion and Diversity, Professional Opportunities for Women, Membership, and Education.
Deadline for applications: October 5, 2022

Registration Type
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*2023 Society membership dues must be paid.

For complete details, visit biophysics.org/2023Meeting
The Biophysical Society was formally founded in 1958 to lead the development and dissemination of knowledge in biophysics. It does so through its many programs, including meetings, publications, and committee outreach activities. The Society consists of over 9,000 members who work in academia, industry, and government agencies throughout the world.

In addition to Annual Meeting discounts and the right to sponsor an abstract, member benefits include:

- Access to the Membership Directory, the Find a Biophysicist (FaB) Network, and the Primarily-Undergraduate Institution (PUI) Network
- Participation in BPS Subgroups to connect with peers and experts within focused areas of research
- An online subscription to the *Biophysical Journal*, as well as reduced charges when publishing
- The *BPS Bulletin*, a monthly member newsletter to stay informed about what is happening in biophysics and the Biophysical Society
- Access to free webinars with career experts to help you thrive and advance in your professional role
- Get involved as a volunteer leader in BPS to make connections and gain experience
- Opportunities for travel and meeting support funds

### 2023 Program Committee

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### Biophysical Society Lecturer

Ardem Patapoutian, Scripps Research/HHMI

*How do you feel? The Molecules that Sense Touch*

Ardem Patapoutian is a molecular biologist specializing in sensory transduction. His research has led to the identification of novel ion channels and receptors activated by temperature, mechanical force, and increased cell volume. His laboratory has shown that these ion channels play crucial roles in sensing temperature, touch, proprioception, pain, and regulating vascular tone. Patapoutian was born in Lebanon in 1967 and attended the American University of Beirut for one year before he immigrated to the United States in 1986 and became a US citizen. He graduated from UCLA in 1990 and received his Ph.D. at Caltech in the lab of Dr. Barbara Wold in 1996. After postdoctoral work with Dr. Lou Reichardt at UCSF, he joined the faculty of Scripps Research in 2000, where he is currently a Professor in the Department of Neuroscience. He also held a position at the Genomics Institute of The Novartis Research Foundation from 2000-2014. Patapoutian was awarded the Young Investigator Award from the Society for Neuroscience in 2006 and was named an Investigator of the Howard Hughes Medical Institute in 2014. He is a fellow of the American Association for the Advancement of Science (2016), a member of the National Academy of Sciences (2017) and a member of American Academy of Arts and Sciences (2020). He is a co-recipient of the 2017 Alden Spencer Award from Columbia (with David Ginty), the 2019 Rosenstiel Award for Distinguished Work in Basic Medical Research (with David Julius), the 2020 Kavli Prize in Neuroscience (with David Julius), the 2021 BBVA Foundation Frontiers of Knowledge Award (shared with David Julius), and the 2021 Nobel Prize in Physiology or Medicine (with David Julius).
Since graduate school, BPS Annual Meetings have given me a sense of community by creating an environment in which I can find peers, collaborators, future colleagues, and amazing mentors. Annual meetings are the best time of the year, as I often get to meet biophysicists from around the world that I only knew from research articles or Twitter, while reuniting with those that I’ve met before!

— Tugba Ozturk, Washington University in St. Louis

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Delve deep into a subject area with symposia organized by these dynamic, focused communities.

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- Macromolecular Machines and Assemblies
- Mechanobiology
- Membrane Fusion, Fission, and Traffic
- Membrane Structure and Function
- Membrane Transport
- Motility and Cytoskeleton
- Multiscale Genome Organization
- Nanoscale Approaches to Biology
- Physical Cell Biology
- Single-Molecule Forces, Manipulation, and Visualization
- Theory and Computation

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Submit Your Abstract - Deadline October 1, 2022

SCIENTIFIC SYMPOSIA

Amyloid Structure, Dynamics, and Proteostasis
Elizabeth Rhoades, University of Pennsylvania, USA, Chair
David Eisenberg, University of California, Los Angeles, USA
Robert Tycko, NIDDK, NIH, USA
Manu Sharma, Weill Cornell Medical College, USA

Viral Recognition and Entry
James Munro, University of Massachusetts, USA, Chair
Ekaterina Heldwein, Tufts University, USA
Megan Stanifer, University of Florida, USA
Juan Reguera, AFMB: Laboratoire Architecture et Fonction des Macromolécules Biologiques, France

Artificial Enzymes: Protein Dynamics and Directed Evolution
Lynn Kamerlin, Uppsala University, Sweden, Chair
Huijun Zhao, University of Illinois at Urbana-Champaign, USA
Donald Hilvert, ETH Zurich, Switzerland
Steven Schwartz, University of Arizona, USA

Fuzzy Complexes
Benjamin Schuler, University of Zurich, Switzerland, Chair
Jennifer Hurley, Rensselaer Polytechnic Institute, USA
Katherine Stott, University of Cambridge, United Kingdom
Max Staller, University of California, Berkeley, USA

Ion Channels on Drugs
Vera Mozhenkova-Bell, University of Pennsylvania, USA, Chair
Fredrik Elinder, Linköping University, Sweden
Stephen J. Tucker, University of Oxford, United Kingdom
Ryan Hibbs, University of Texas Southwestern Medical Center, USA

Allosteric Modulation of GPCRs
Arthur Christopoulos, Monash University, Australia, Chair
Madan Babu, St. Jude Children’s Research Hospital, USA
Ron Dror, Stanford University, USA
Moran Shalev-Benami, Weizmann Institute of Science, Israel

Unholy Matrimony of Channels and Transporters
Show-Ling Shyng, Oregon Health and Science University, USA, Chair
Jianping Wu, Westlake University, China
Harley Kurata, University of Alberta, Canada
David Stokes, New York University, USA

Bacterial Barriers
Randi Stockbridge, University of Michigan, USA, Chair
Guro Suel, University of California, San Diego, USA
Joanna Slusky, University of Kansas, USA
Camilo Perez, University of Basel, Switzerland

Mechanisms of Membrane Insertion
Bil Clemons, California Institute of Technology, USA, Chair
Rebecca Voorhees, California Institute of Technology, USA
Eunyong Park, University of California, Berkeley, USA
Ian Collinson, University of Bristol, United Kingdom

Mechanotransduction Complex in Hair Cells
Robert Fettiplace, University of Wisconsin–Madison, USA, Chair
Marcos Sotomayor, Ohio State University, USA
Pingbo Huang, Hong Kong University of Science and Technology
Angela Ballesteros Morcillo, NIH, USA

50 Years After the Fluid Mosaic Membrane
Sarah Keller, University of Washington, USA, Chair
Madan Rao, National Centre for Biological Sciences, India
Drew Marquardt, University of Windsor, Canada
Ana Garcia-Saez, University of Cologne, Germany

The Molecular Sarcomere
Samantha Harris, University of Arizona, USA, Chair
Anna Grosberg, University of California, Irvine, USA
Dylan Burnette, Vanderbilt University, USA
Stefan Raunser, Max Planck Institute for Molecular Physiology, Germany
**SCIENTIFIC SYMPOSIA**

**Cytoskeletal Cross Talk**
Marileen Dogterom, Delft University of Technology, The Netherlands, *Chair*
Jessica Henty-Ridilla, SUNY Upstate Medical University, USA
Michael Murrell, Yale University, USA
Dana Nicole Reinemann, University of Mississippi, USA

**Genome Organization**
Elizabeth Hinde, University of Melbourne, Australia, *Chair*
Marco Foiani, University of Milan, Italy
Sua Myong, Johns Hopkins University, USA
Yuichi Taniguchi, Kyoto University, Japan

**The RNA World**
Jeffrey Chaio, Friedrich Miescher Institute for Biomedical Research, Switzerland, *Chair*
Wendy Gilbert, Yale University, USA
Rhiu Das, Stanford University, USA
Katja Petzold, Karolinska Institute, Sweden

**Proton Coupled Transport in Organelles**
Simon Newstead, University of Oxford, United Kingdom, *Chair*
Joseph A. Mindell, NIH, USA
Rajini Rao, Johns Hopkins University, USA
Ambre Bertholet, University of California, Los Angeles, USA

**Optogenetics and Beyond**
Mikhail Shapiro, California Institute of Technology, USA, *Chair*
Elena G. Gavorunova, University of Texas Medical School, USA
Emilia Entcheva, George Washington University, USA
Jared Toettcher, Princeton University, USA

**Opportunities for Change: Setting Standards to Address Harassment in Science**
Renae Ryan, University of Sydney, Australia, *Chair*
Michael Lauer, NIH, USA
Theresa Good, NSF, USA
Speaker to be announced

**Predicting Protein Fold**
John Moult, University of Maryland, USA, *Chair*
Lucy Forrest, NINDS, NIH, USA
Kathryn Tunyasuvunakool, DeepMind, United Kingdom
Sameer Velankar, European Molecular Biology Laboratory’s, United Kingdom

**Biophysics of Mitosis**
Mary Elting, North Carolina State University, USA, *Chair*
Meredith Betterton, University of Colorado, Boulder, USA
Lillian Fritz-Laylin, University of Massachusetts Amherst, USA
Dimitrios Vavylonis, Lehigh University, USA

**WORKSHOPS**

**Computational Modeling of Binding Thermodynamics**
Carol Post, Purdue University, USA, *Chair*
Zoe Cournia, University of Athens, Greece
Jay Ponder, Washington University in St. Louis, USA
Siewert Marrink, University of Groningen, The Netherlands
Lingle Wang, Schrodinger, Inc, USA

**Developments in Nanopore Biosensors**
Giovanni Maglia, University of Groningen, The Netherlands, *Chair*
Min Chen, University of Massachusetts Amherst, USA
Jens Gundlach, University of Washington, USA
Cees Dekker, Delft University of Technology, The Netherlands

**Vibrational Tools for Biomolecular and Cellular Studies**
Nien-Hui Ge, University of California, Irvine, USA, *Chair*
Wei Min, Columbia University, USA
Andrei Tokmakoff, University of Chicago, USA
Shen Ye, Tohoku University, Japan

**High Throughput Single Molecule Spectroscopy**
Joseph Puglisi, Stanford University, USA, *Chair*
Nynke Dekker, Delft University of Technology, The Netherlands
Gijs Wuite, Vrije Universiteit Amsterdam, The Netherlands
Ilya Finkelstein, University of Texas at Austin, USA
Marcel Goldschen-Ohm, University of Texas at Austin, USA

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- Cell Physiology and Bioenergetics
- Channels and Transporters
- Cytoskeleton, Motility, and Motors
- Systems Biology
- Biophysics of Neuroscience
- New Developments in Biophysical Techniques
- Bioengineering and Biomaterials
- Biophysics Education