

Biophysical Society 70th Annual Meeting
Membrane Transport Subgroup Symposium
Saturday February 21, 2026
San Francisco, California

Subgroup Chair: Seok-Yong Lee, Duke University, USA

Symposium Time: 8:30 AM - 12:30 PM EST

Symposium Room: 207/208

Subgroup Business Meeting: 10:40 AM

8:30 AM Opening Remarks

8:35 AM Maria G. Kurnikova, Carnegie Mellon, USA

Modeling Structure Informed Function in Tetrameric Ion Channels

9:05 AM Student/Postdoc Talk: Arnav Paul, UIUC, USA

Mechanistic Insights into Glucose Transport for PFHT1 from Molecular Dynamics and Graph Attention Models

9:20 AM Robert Edwards, University of California, San Francisco, USA

Allosteric Regulation of Synaptic Vesicle Glutamate Transport

9:50 AM Student/Postdoc Talks:

Xiaofeng Tan, NINDS, USA

Structural Basis of Fast N-Type Inactivation in Kv channels

Janina Sormann, University of Copenhagen, Denmark

Targeting hASIC1A in Stroke with Deep Learning-Generated Miniproteins

Michael Fabrizio, University of Florida, USA

Cryo-EM Structure of TRPM1 reveals a Non-Canonical Architecture with an Inverted Transmembrane Domain

10:10 AM Joel Butterwick, Yale University, USA

How Insects Taste Sweet: A Molecular Mechanism for Sugar Selectivity

10:40 AM Break

11:00 AM Jiansen Jiang, NIH, USA

Molecular Basis of Transport and Activity Regulation of Renal Drug Transporter OAT1

11:30 AM Justin Fedor, Duke University, USA

Insecticide Control of Function and Assembly of the heteromeric Insect TRP channel Nanchung-Inactive

11:45 AM **Chris Miller Award Lecture**

Remarks: Chris Miller

Awardee: Jue Chen, Rockefeller University, USA

ABC Transporters: How a Common Engine Drives Diverse Functions

12:30 PM Closing Remarks and Subgroup Business Meeting

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