Biophysical Society 69th Annual Meeting
Membrane Transport Subgroup Symposium
Saturday February 15, 2025
Los Angeles, California

Subgroup Chair: Yun Lyna Luo, Western University, USA

Symposium Time: 1:30 PM - 5:30 PM PST

Symposium Room: 502A

Subgroup Business Meeting: 3:05 PM PST

1:30 PM Opening Remarks

1:35 PM-2:05 Rachelle Gaudet, Havard University, USA
Conformational Cycle and Substrate Selectivity in Nramp-Family Metal Transporters

2:05 PM-2:20 PM student/postdoc talk

Ashkan Fakharzadeh (University of Illinois Urbana-Champaign)

Conformational Free Energy Landscapes of a Glutamate Transporter

2:20 PM-2:50 PM Harel Weinstein, Weill Cornell University, USA
Decoding the Address System for the Shuttle Transport of Cholesterol in the Cell

2:50 PM-3:05 PM Flash talks

Yang Suo (Duke University)

Molecular basis of the urate transporter URAT1 inhibition by gout drugs

Elisa Carrillo (The University of Texas Health Science Center at Houston)

Calcium-permeable AMPA receptors associated with auxiliary proteins are blocked by memantine.

Sri Karthika Shanmugam (Columbia University Medical Centre)

Hacking the ubiquitin code to distinctively regulate ion channel functional expression

3:05 – 3:45 PM Business meeting & Coffee Break

3:45 - 4:00 PM Jorg Grandl (Duke University)

A closed-loop system for millisecond readout and control of membrane tension

4:00 - 4:15 PM Student/postdoc talk

Tharaka Wijerathne (Western University)

Heteromerization of PIEZO1 and PIEZO2

4:15 - 4:45 PM Phil Stansfeld (University of Warwick)
Molecular Mechanisms of Bacterial Cell Envelope Biogenesis

4:45 - 5:00 PM Student/postdoc talk

Adel Hussein (New York University School of Medicine)

A potassium odyssey: the permeation pathway of KdpFABC

5:00 - 5:30 PM Francis Valiyaveetil (Oregon Health & Science University)
Allosteric Coupling of Ion and Substrate Binding to a Glutamate Transporter Homolog

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