

Membrane Biophysics Subgroup 2018 Symposium
Saturday, February 17, 2018
San Francisco, California
1:00 PM- 6:00 PM
North Lower Lobby Room 24
Subgroup Chair: Jose Faraldo-Gomez, National Institutes of Health

**Dissecting the Thermodynamics of Channels & Transporters Through the Unholy
Matrimony of Experiment & Computation**

1:00 PM Opening Remarks

1:05 PM

Joseph Mindell, National Institutes of Health

Thermodynamic Methods for Measuring Transporter Stoichiometry

1:35 PM

Jessica Swanson, University of Chicago

Multiscale Kinetic Modeling of a Cl⁻/H⁺ Antiporter: Integrating Simulation and Experiment to Characterize a Complex Ion Exchange Process

2:05 PM

Simon Scheuring, Weill Cornell Medicine

High-Speed Atomic Force Microscopy: A New Approach to Study Channels and Transporters

2:35 PM

Tetiana Serdiuk, Swiss Federal Institute of Technology, Zürich, Switzerland

Observing Insertase-and Translocase-assisted Insertion and Folding Pathways of Single Transmembrane Transporters

3:05 PM Break

3:20 PM Business Meeting

3:50 PM

Régis Pomès, University of Toronto, Canada

Molecular Mechanisms of Ion Permeation, Selectivity, and Leakage

4:20 PM

Baron Chanda, University of Wisconsin, Madison

Generalized Interaction Energy Analysis (GIA) Reveals Voltage Transduction Pathways in the Shaker Potassium Channel

4:50 PM

Lucie Delemotte, KTH Royal Institute of Technology, Sweden

On the Selective Promiscuity of Calmodulin

5:20 PM Closing Remarks

5:30 PM Adjournment

6:00 PM Subgroup Dinner

The Membrane Biophysics Subgroup is grateful for support from the following companies:

