

POSTER SESSION A - Thursday, September 6th, 5:00 – 6:30 PM

*participant in early-career poster competition

#	Presenter	Title
1	Rahul Banerjee* (NHLBI, NIH)	Bilobal Architecture of Calmodulin in Signaling to Voltage-gated Ca ²⁺ Channels
3	Joseph Dynes* (UC Irvine)	Cell-wide mapping of Orai1 channel activity reveals functional heterogeneity in STIM1-Orai1 puncta
5	Joseph Farley (Indiana University)	A7 nicotinic acetylcholine receptor (nAChR)/G protein interactions and endocytic mechanisms modulates nicotine-induced upregulation of A7 nAChRs in <i>Xenopus oocytes</i> .
7	Theanne Griffith* (Columbia University)	Na _v 1.1 and Na _v 1.6 channels mediate repetitive action potential firing in menthol-sensitive Vglut3-lineage sensory neurons.
9	Arnd Pralle (University of Buffalo)	Quantification of how properties of the actin cortex modulate the dimerization and signaling rates of membrane receptors
11	Luis O. Romero* (University of Tennessee HSC)	Dietary fatty acids fine-tune Piezo1 activity
12	Eric Rousseau (Université de Sherbrooke, CR-CHUS)	How alternative calcium conductance might modulate contractile properties from human myometrium at term
13	Ming-Feng Tsai (Brandeis University)	Mechanisms of Ca ²⁺ dependent activation of the mitochondrial Ca ²⁺ uniporter
15	Jie Zheng (UC Davis)	The conformational wave in capsaicin activation of TRPV1 ion channel
17	Matt Trudeau (University of Maryland)	An intrinsic ligand is a determinant of the PAS and CNBHD interaction in hERG potassium channels
19	Valentina Arkhipova* (University of Groningen)	Photoswitchable inhibitors in studies of glutamate transporters
21	Angela Ballesteros (NINDS, NIH)	Structural relationship between the putative hair cell mechanotransduction channel TMC1 and TMEM16 proteins
23	Kamirah Demouchet* (University of Michigan)	Binding of a structural sodium required for an anion channel's conducting confirmation.
25	Maria Falzone* (Weill Cornell Medical College)	Structural basis of Ca ²⁺ -dependent lipid transport by a TMEM16 scramblase
27	Eva Fortea* (Weill Cornell Medical College)	Backbone amides are conserved determinants of inter-anion selectivity in CLC
29	Xiaolong Gao* (Weill Cornell Medical College)	Voltage modulation of the cyclic nucleotide-gated channel SthK
31	Alisa Garaeva* (University of Groningen)	Cryo-EM structure of the human neutral amino acid transporter ASCT2
32	Sushree Tripathy* (University of Buffalo)	Simulations Suggest a Structural Basis for Nicotinic Receptor Activation by Agonists
33	Matan Geron* (The Hebrew University of Jerusalem)	TRPV1 pore turret dictates distinct DkTx- and capsaicin- gating
35	Anabel Fernández-Mariño	Understanding potassium channel architecture and gating
37	Steffen Sinning (Yale University)	Cholesterol binding to a conserved site modulates the conformation, pharmacology, and transport kinetics of the human serotonin transporter.
39	Sarah Capponi* (UCSF)	Gating mechanism of the NOMPC mechanosensitive channel
41	Wenchang Zhou* (NHLBI, NIH)	Is the Ton transport system a rotary electromotor?
43	Eric Drier (Mad City Labs, Inc.)	Single Molecule Microscopes from Mad City Labs

POSTER SESSION B - Friday, September 7th, 5:00 – 6:30 PM

*participant in early-career poster competition

#	Presenter	Title
2	Mauricio Lillo* (Rutgers University)	A novel voltage clamp/dye uptake assay reveals saturable transport of molecules through CALHM1 and connexin channels
4	Dylan Meyer (Tech University HS)	Modulation of ion interaction with the Na/K pump by FXYD2, FXYD4, FXYD6, & FXYD7
6	Dung Nguyen* (UC Davis)	ION TRANSPORTS IN THE TMEM16 FAMILY MEMBERS
8	Sung Park* (Virginia Commonwealth University)	Novel Small Molecule Sulfhydryl Reagent Blockers of VRAC
10	Johannes Resiert (Ecole Normale Supérieure, INSERM)	On the role of excitatory Cl ⁻ channels in olfactory receptor neurons
14	Eric Senning (University of Texas-Austin)	Single molecule colocalization fluorescence analysis of TRPV1 interactions in plasma membrane sheets prepared from unroofed HEK293T cells
16	Chen-Wei Tsai (Brandeis University)	Electrical recordings of the mitochondrial calcium uniporter in Xenopus oocytes
18	Jiunn-Tyng Yeh* (University of Missouri – Columbia)	A stop codon doesn't really stop — single-channel function of E60X-CFTR
20	John Lin King* (UCSF)	A Stinging Sensation: Seeking Secrets of Wasabi Receptor Signaling with a Selective Scorpion Toxin
22	Christian Macdonald* (University of Michigan)	Evolution of substrate specificity in the Small Multidrug Resistance (SMR) family of transporters
24	Kimberly Matluef* (OSU)	Backbone Mutagenesis of a K ⁺ Channel Voltage Sensor
26	Kacey Mersch* (University of Iowa)	Quantifying the contribution of sidechain packing to the stability of CLC-ec1 dimerization in membranes
28	Jon Sack (UC Davis)	Coupling between voltage sensor movement and pore opening of Kv2.1 channels
30	Huaizong Shen (Tsinghua University)	Mechanism of voltage-gated sodium channel modulation by toxins
34	Juan M Valdez Capuccino (Rutgers University)	Experimental and computational experiments on a human Connexin26 mutation (N14K) reveal a key role of the cytosolic domains in hemichannel gating
36	Victoria Young* (Texas Tech University HC)	State-dependent Movement of the Na/K pump α Subunit's First External Loop
38	Antoniya Aleksandrova (NINDS, NIH)	Systematic analysis of symmetry in membrane proteins
40	Emel Ficici (NHLBI, NIH)	A broadly conserved Na ⁺ binding site in the N-lobe of prokaryotic multi-drug MATE transporters
42	Igor Vorobyov (UC Davis)	Investigating molecular mechanisms of state-dependent hERG block via atomistic modeling and simulations
43	Eric Drier (Mad City Labs Inc.)	Single Molecule Microscopes from Mad City Labs
44	Kallol Gupta (Yale University)	Deconstructing membrane protein interactome through native mass spectrometry
45	Sharona Gordon, William Zagotta (U. of Washington)	Visualizing conformational dynamics of proteins in solution and at the cell membrane
46	Fatemeh Khalili-Araghi (University of Illinois-Chicago)	Molecular simulations of paracellular ion transport through claudin pores