

**Biophysical Society 69<sup>th</sup> Annual Meeting**  
**Channels, Receptors, and Transporters Subgroup Symposium**

**8:30 AM - 12:30 PM, Saturday February 15, 2025**

**Symposium Room: TBA**

**Los Angeles, California**

Chair: Renae Ryan, University of Sydney, Australia







Secretary-Treasurer: Jerome Lacroix, Western University of Health Sciences, USA

Chair-Elect: Juan Du, Northwestern University, USA

**Chair session 1: Renae Ryan, University of Sydney**

	8:30 AM	Opening Remarks
	8:35 AM	Juan Du, Northwestern University <i>Molecular evolution of TRPM2: from Channel-Enzyme to Thermosensor</i>
	9:05 AM	Willow Coyote-Maestas, UCSF <i>How to discover sequence to function relationships across multi-pass membrane proteome</i>
	9:35 AM	Early Career talk 1 Soyeon Kim, Case Western Reserve University School of Medicine <i>EphA2 receptor tyrosine kinase interacts with ephrina1 in cis through ligand binding domain</i>
	9:50 AM	Early Career talk 2 Zoja Selimi, The Ohio State University <i>Unexpected Ca<sup>2+</sup>-dependent Nav1.5 dysregulation by arrhythmogenic cam mutations</i>
	10:05 AM	Jorge Contreras, UC Davis <i>Connexins and Pannexins: Not Just Large-Pore Channels but Versatile Transporters</i>
	10:35 AM	Subgroup Business Meeting

## Chair session 2: Juan Du, Northwestern University

	11:00 AM	Mette Poulsen, University of Copenhagen <i>Channel-transporter crosstalk: Regulation of pH-sensing ion channel by transporter family</i>
	11:30 AM	Early Career talk 3 Rían Manville, University of California, Irvine <i>Pisiferic acid ligand-gates the Kv1.1 potassium channel to correct episodic ataxia type 1</i>
  	11:45 AM	Student flash talks (3 x 5 min)  1. Yusuke Asasgoe, Kyoto University <i>Twisting motion of a single KSCA channel in response to sequential chemical stimuli</i>  2. Ehsaneh Khodadadi, University of Arkansas <i>Cholesterol-modulated conformational dynamics of mGluR2 in active and inactive states</i>  3. Lasse M. Desdorf, Aarhus University <i>Capturing bicarbonate: the transport mechanism of Ncbe</i>
	12:00 PM	Ben Corry, Australian National University <i>Mechanical activation opens a lipid lined pore in OSCA/TMEM63 channels</i>
	12:30 PM	Closing Remarks

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