



Satellite Symposium “Advances in Membrane Physiology”

September 8th, 2025, Freie Universität Berlin, Berlin

Programme

	08:55-09:00	Prof. Dr. Hans Merzendorfer & PD Dr. Christian Müller	Welcome and Introduction
Session I			
Dr. Ehab El-Awaad	09:00-09:45	Prof. Dr. Umut Toprak, Ankara University, Turkey	SERCA and IP ₃ R in insect membrane physiology: Calcium transport as a central regulator of stress and energy homeostasis
	09:45-10:30	Dr. Weixing Zhu, University of Siegen, Germany, Chinese Academy of Agricultural Sciences, China	Functional research on chitin synthase 1-associated proteins in insects
	10:30-11:00	Coffee Break	
	11:00-11:45	PD Dr. Christian Müller, University of Greifswald, Germany	DUR3-type urea transporters in animals
	11:45-12:30	Prof. Dr. Bettina Zeis, University of Münster, Germany	Effect of temperature on mitochondrial membrane protein activities and the oxidative phosphorylation system in <i>Daphnia magna</i>
	12:30-14:00	Lunch Break	
Session II			
PD Dr. Christian Müller	14:00-14:45	Prof. Dr. David Heckel, Max Planck Institute for Chemical Ecology, Jena, Germany	Why are ABC transporters effective targets for <i>Bt</i> Cry toxins but not <i>Bt</i> VIP3 toxins?
	14:45-15:30	Prof. Dr. Hans Merzendorfer, University of Siegen, Germany	<i>Tribolium castaneum</i> : a model for analysing functions of ABC transporter encoding genes
	15:30-16:00	Coffee Break	
	16:00-16:45	Mario Röpcke, University of Hamburg, Germany	The Role of ABCB Transporters in the sequestration of toxic cardenolides
	16:45-17:30	Dr. Marie Pauline Sell, University of Hamburg, Germany	ABCB Transporters in <i>Oncopeltus fasciatus</i> : Gatekeepers of toxin resistance and sequestration?
	17:30-18:00	Closing Remarks and Discussion	

Venue: Freie Universität Berlin, Seminarzentrum, Lecture Hall 116

