

LYSOSOMES & AUTOPHAGY FOR2625 SYMPOSIUM

BERLIN, MAY 5-6, 2022

Thursday, May 5TH

08:00 – 10:15 h Registration

10:15 – 10:30 h Opening Remarks

Session I

10:30 – 11:00 h **Paul Saftig** (Kiel Univ., DE): Lysosomal membrane proteins: Functions and new roles

11:00 – 11:30 h **Scott Emr** (Cornell Univ., Ithaca, USA): Plasma membrane protein turnover: Regulated Ub modifications and ESCRT-mediated sorting.

11:30 – 11:45 h Coffee break

11:45 – 12:15 h **Volker Haucke** (FMP, Berlin, DE): Rewiring of organelle dynamics & cell metabolism by phosphoinositides

12:15 – 12:45 h **Andrea Ballabio** (TIGEM, Pozzuoli/Naples, IT): Lysosomal signaling in metabolic adaptation and tumorigenesis

12:45 – 14:00 h Lunch

14:00 – 15:30 h Poster Session I

Session II

15:30 – 16:00 h *Virtual talk* - **Haoxing Xu** (Univ. of Michigan, Ann Arbor, USA): Molecular physiology of lysosomes

16:00 – 16:30 h **Selected Talks**

Kristine Schauer (Université Paris-Saclay, FR) Transcription Factor EB regulates phosphatidylinositol-3-phosphate levels on endomembranes and alters lysosome positioning in the bladder cancer model

Sabrina Jabs (Kiel Univ., DE) LYSET - a key protein in the biogenesis of lysosomes and viral infection

16:30 – 16:45 h Coffee break

16:45 – 17:15 h **Katja Simon** (Oxford Univ., UK): The autophago-lysosomal pathway in immunity and inflammation

17:15 – 17:45 h **Selected Talks**

Giorgia Di Lorenzo (TIGEM, Pozzuoli, IT) Phosphorylation of FAM134C by CK2 controls starvation induced ER-phagy

Roland Knorr (Humboldt-Univ. Berlin, DE) Reshaping of autophagosomes and vacuoles by wetting bio-condensates

17:45 – 19:00 h Snack Buffet

Evening Session

19:00 – 19:30 h *Virtual talk* - **Jennifer Lippincott-Schwartz** (HHMI, Ashburn, USA): Lysosomal engulfment and degradation of ER exit sites through a selective, micro-autophagic pathway mediated by COPII, ALG2 and ESCRTs

19:30 – 20:00 h **Sergio Grinstein** (Univ. of Toronto, CAN): Role of pH in the regulation of endolysosomal traffic

20:00 – 21:30 h Poster Session II with Reception

Friday, May 6TH

	Session III
09:00 – 09:30 h	Ivan Dikic (Univ. of Frankfurt, DE): Dynamics of ER and lysosome remodeling
09:30 – 10:00 h	Judith Klumperman (UMC Utrecht, NL): The role of the HOPS complex in organizing the endo-lysosomal pathway
10:00 – 10:30 h	Selected Talks <u>Eduardo Ratto</u> (DKFZ, Heidelberg, DE) Direct control of lysosomal catabolic activity by mTORC1 through regulation of V-ATPase assembly <u>Philippe Chavrier</u> (Institut Curie, Paris, FR) Endolysosomal F-actin regulates mTORC1 signaling
10:30 – 12:00 h	Poster Session III
12:00 – 13:00 h	Lunch
	Session IV
13:00 – 13:30 h	Jayanta Debnath (UC San Francisco, USA): <u>S</u> ecretory <u>A</u> utophagy during endo <u>L</u> ysosomal <u>I</u> nhibition (SALI)
	Selected Talks
13:30 – 14:00 h	<u>Johannes Kopp</u> (Charité, Berlin, DE): Loss of v-ATPase subunit a2 function leads to impaired autophagy and neurodegeneration due to trans Golgi pH alteration <u>Christian Ungermann</u> (Osnabrück Univ., DE): Mechanism of Rab5-mediated Rab7 recruitment at the endosome
14:00 – 14:30 h	<i>Virtual talk</i> - Juan Bonifacino (NIH, Bethesda, USA): Identification of RUFY3 and RUFY4 as novel ARL8-dependent, dynein-dynactin adaptors for endolysosomes
14:30 – 16:00 h	Poster Session IV
	Session V Chair: Ivan Dikic
16:00 – 16:30 h	Martin Graef (Cornell Univ., Ithaca, USA): Mechanisms and physiological functions of autophagy
16:30 – 17:00 h	Noboru Mizushima (Tokyo Univ., JPN): Organelle degradation by autophagy-dependent and independent pathways
17:00 h	Closing Remarks