



Life Sciences Seminar

Mechanisms of Selective Autophagy - From Phase Separation to Cargo Degradation

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Host: Martin Loose

Autophagy is an intracellular lysosomal bulk degradation pathway that ensures cellular homeostasis by the removal of damaged and dangerous material from the cytoplasm. This is achieved by the sequestration of the cytoplasmic cargo material within double membraned organelles called autophagosomes. The selective sequestration of only specific cargo material is mediated by cargo receptors that link the cargo to the nascent autophagosomal membrane. How cargo selection, membrane nucleation and growth are coupled is unclear. I will present our recent work on the yeast Atg19 and human p62 cargo receptors derived from in vitro reconstitution systems and cell biology. In particular, I will discuss how they act sequentially during cargo condensation, membrane nucleation and elongation to mediate the specific sequestration and subsequent degradation of cellular material.

Wednesday, December 5, 2018 11:00am - 12:00pm
IST Austria Campus Mondri Seminar Room 2, Central Building



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.