



Life Sciences Seminar

Mechanisms of Selective Autophagy - From Phase Separation to Cargo Degradation

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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

Mondi Seminar Room 2, Central Building



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