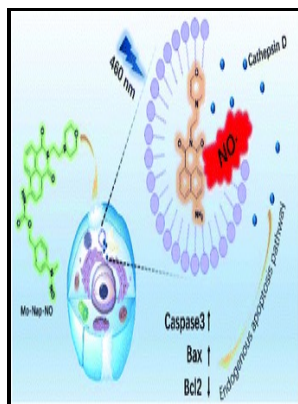


# Biology of the lysosome

Plenum Press - The lysosome as a cellular centre for signalling, metabolism and quality control



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Tags: #Lysosome: #Definition, #Structure #& #Function

## Parkinson's disease: how lysosomes become a hub for the propagation of the pathology

Recruitment of folliculin to lysosomes supports the amino acid-dependent activation of Rag GTPases. Acidification of Lysosomes and Endosomes; R.

## Lysosome: Definition, Structure & Function

Transport of material to the lysosome is by membrane-bounded structures. TFEB-mediated autophagy rescues midbrain dopamine neurons from  $\alpha$ -synuclein toxicity. In general, the term autophagy typically refers to macroautophagy, where the double membrane autophagosome envelops its cargo, fuses with lysosomes, and forms the autolysosome.

## Lysosome biology in autophagy

Amino-acid imbalance explains extension of lifespan by dietary restriction in *Drosophila*.

## Lysosome

Cell death by LMP has also been linked to the direct activation of caspases by lysosomal proteases Ishisaka et al. Suppression of basal autophagy in neural cells causes neurodegenerative disease in mice.

## Lysosome

Other forms of autophagy, namely chaperone-mediated autophagy and microautophagy, occur directly on the lysosome. This antibiotic derived from *Streptomyces griseus* is a specific inhibitor of vacuolar-type H<sup>+</sup> ATPases V-ATPase and prevents maturation of autophagic vacuoles by preventing the fusion between autophagosomes and lysosomes Yamamoto et al.

## Lysosome biology in autophagy

Despite their importance to autophagy, details on autophagy-specific regulation of lysosomes remain relatively scarce. Electron cryomicroscopy

observation of rotational states in a eukaryotic V-ATPase.

## **Biology of the Lysosome**

Editorial Reviews From a preview of a previous volume: 'The heterogeneity of topics. Microautophagy in endosomes is more well-understood. Lysosomes interface physically and functionally with other organelles, and the master regulator mechanistic target of rapamycin complex 1 kinase is activated on lysosomes in response to nutrient and growth factor inputs.'

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