

Biology of the lysosome

Plenum Press - Critical Functions of the Lysosome in Cancer Biology



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

Despite their importance to autophagy, details on autophagy-specific regulation of lysosomes remain relatively scarce. This accumulation results in the inactivation of lysosomal hydrolases, including cathepsins, which are necessary for lysosomal degradation.

Biology of the Lysosome

Lysosomes are involved with various cell processes. Here, we review the role of sphingolipids in the inflammatory response and build a protein-protein interaction network for proteins related with sphingolipid metabolism and inflammation to identify key interaction partners for the crosstalk between sphingolipids and inflammation. If the cell is damaged beyond repair, lysosomes can help it to self-destruct in a process called programmed cell death, or apoptosis.

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

Lysosomal Nucleic Acid and Phosphate Metabolism, and Related Metabolic Reactions; R.

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

Multiplex image-based autophagy RNAi screening identifies SMCR8 as ULK1 kinase activity and gene expression regulator.

Lysosome biology in autophagy

The yeast lysosome-like vacuole: endpoint and crossroads. The release of cathepsins regulates apoptosis signaling and LMP can be triggered by a wide range of apoptotic and autophagic signals including death receptor activation, ER stress, DNA damage, and growth factor starvation Boya and Kroemer, 2008; Chwieralski et al.

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