Special Issue

The Role of Lysosomes in Modulating Cell Function

Message from the Guest Editors

Lysosomes are membrane bound organelles that have traditionally been thought of as the disposal units within the cell, breaking down cellular proteins, lipids and organelles. Recent work, however, has shown that lysosomes play an important role in regulating cellular function by coordinating the response to changes in the cellular milieu. Lysosomes have also been shown to communicate with other organelles and the plasma membrane, making them hubs for communication within and between cells. Lysosomal control of cell metabolic and catabolic pathways makes these organelles pivotal players in a wide variety of processes including nutrient sensing, intracellular trafficking, autophagy, drug sequestration, malignant transformation and stem cell fate determination. The primary focus of this topic will be the role of lysosomes in regulating cellular structure and function and the mechanisms underlying these pathways. An additional focus will be modulating lysosomal function and signalling to alter disease processes such as drug resistance, viral infection and metastasis.

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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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