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The Role of Lysosomes in Modulating Cell Function

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Message from the Guest Editors

Dear Colleagues,

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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Guest Editors



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Special Issue



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