

Special Issue

Role of Lysosomes in Mediating Cancer Drug Resistance

Message from the Guest Editor

In recent decades, our understanding of how lysosomes function has advanced dramatically. They are now considered dynamic organelles with varied physiological and pathophysiological functions in cell metabolism, autophagy, cell proliferation, gene expression, cell stress, cell death, immune response, membrane repair, tumor invasion, and synaptic plasticity regulation. In addition, they are putatively linked to drug resistance through the altered intracellular distribution of anti-cancer drugs. Although research has not yet provided clear evidence to clarify the mechanism of drug resistance, it is known that lysosomes can influence sensitivity to anti-tumor drugs through cell death mechanism regulation. I encourage my colleagues to think more broadly about mechanisms of drug resistance, whether directly or indirectly involving lysosomes, given what is now known about these organelles. Potential topics covered by this Special Issue include, but are not limited to, the following:

- (Macro)-autophagy
- Lysosomal-mediated cell death
- Autophagic cell death
- Lysosomal exocytosis
- Tumor microenvironment
- Lysosomal drug sequestration

Guest Editor

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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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