Special Issue

Autophagy Functions in Hematological Malignancies Biology and Therapy Resistance

Message from the Guest Editors

While approaches such as targeted therapies hold great promise, the prognosis of acute myeloid leukemia (AML) remains poor. This is mainly due to the high frequency of disease relapse caused by relapse-initiating leukemic cells (RICs) that are resistant to therapy. Therefore, the identification of new targets and resistance mechanisms is urgently needed to improve clinical outcomes. Autophagy has previously been implicated in AML initiation, progression, and therapeutic resistance. And it ensures energy and cellular homeostasis. In addition, especially through its role in metabolism regulation, autophagy has been increasingly associated with oncogenesis. However, it is still necessary to study to better understand its role and identify through which molecular and cellular mechanisms autophagy regulates AML biology and response to therapy, especially in vivo.

This Special Issue will investigate, in vitro and in vivo, the contribution of autophagy to AML development, growth, and relapse depending on the AML subtypes and treatments used, in order to understand whether autophagy modulation could be an interesting strategy to improve current antileukemic regimens.

Guest Editors

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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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