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Autophagy Functions in Hematological Malignancies Biology and Therapy Resistance

Guest Editors:

Dr. Carine Joffre

Centre de Recherches en
Cancérologie de Toulouse,
Toulouse, France

Dr. Laura Poillet

Centre de Recherches en
Cancérologie de Toulouse,
Toulouse, France

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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.



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Special Issue



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Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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