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Mechanisms of Oncogenic Self-Renewal in Hematopoietic Stem Cells

Guest Editor:

Prof. Dr. Xiaona You

Institute of
Immunopharmaceutical
Sciences, School of
Pharmaceutical Sciences,
Shandong University, Jinan
250012, China

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Message from the Guest Editor

Accumulating evidence suggests that most leukemias are initiated by rare leukemic stem cells. The dysregulation of self-renewal in leukemia stem cells is crucial for relapse after chemotherapy. Emerging therapeutic agents targeting aberrant self-renewal pathways present significant clinical potential. Therefore, further insights into the mechanism of self-renewal in hematopoietic stem cells are needed to identify new potential key genes and pathways to enhance our understanding regarding self-renewal and differentiation in leukemic stem cells and improve the development of therapeutic agents for cancer therapy.

This Special Issue aims to provide an overview on current developments in the field of hematopoietic stem cells' self-renewal. We welcome submissions of research articles and reviews that relate to self-renewal and differentiation in hematopoietic stem cells and leukemia stem cells, including topics in the field of basic and translational research as well as diagnostic applications.



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and CSIC, 46980 Valencia, Spain

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Biology Editorial Office
MDPI, St. Alban-Anlage 66
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