

Special Issue

Drug Resistance in Hematologic Malignancies

Message from the Guest Editors

Considerable progresses have been made in the management of patients suffering from hematological malignancies in these past ten years, and patients now benefit from a plethora of treatments, from conventional to targeted and immunotherapies. Whatever the kind of treatment, malignant hematopoietic cells consistently develop cellular strategies to adapt and survive to therapeutic drugs. Such an adaptation may involve different molecular and cellular mechanisms, including the acquisition of mutations. In addition, the modulation of the signaling pathways involved in apoptosis, autophagy, proliferation, proteostasis, metabolism, epigenetic modifications, and the modulation of oncogenes or tumor suppressors represent additional processes which may lead to therapy-induced resistance. Other potential mechanisms of resistance arise from the tumor stromal niche. This Special Issue will encompass the ensemble of the resistance processes set up in the course of hematological malignancies treatment and the mechanisms by which alterations of these pathways can be therapeutically exploited to improve therapies.

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