

Special Issue

New Strategies to Overcome Resistance to Chemotherapy and Immune System in Cancer 3.0

Message from the Guest Editors

Up to 70% of solid and hematological tumors are chemoresistant at diagnosis and/or become resistant during chemotherapy, developing a multiple cross-resistance towards drugs unrelated in structure and activity, termed “multidrug resistance” (MDR). MDR cells are also less recognized by the immune system, because they produce immune-suppressive metabolites and poorly raise an anti-tumor adaptive response by the host immune system in response to chemotherapy or radiotherapy. The reasons of this chemo-immune resistance rely on the superior ability of MDR cells to adapt to stressing conditions. Metabolic rewiring and epigenetic events, such as the expression of specific miRNAs or ncRNAs, play a key role in such adaptation.

This Special Issue of focus on the latest studies dissecting the molecular linkages between chemoresistance and immune resistance and on new possible chemo-immune sensitizer approaches, including radio-chemotherapy and radio-immune-chemotherapy combinations, metabolic modifiers, epigenetic modulators.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/90371

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
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