



Molecular Mechanisms of Cancer Drug Resistance: Emerging Biomarkers and Promising Targets to Overcome Tumor Progression

Guest Editor:

Prof. Dr. Patrizia Limonta

Department of Pharmacological
and Biomolecular Sciences,
Università degli Studi di Milano,
via Balzaretti 9, 20133 Milano,
Italy

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Message from the Guest Editor

Dear Colleagues,

Development of resistance to standard therapies represents the leading cause of cancer recurrence and death. Several biological events are involved in the development of drug resistance: growth factor receptors, transcription factors, metabolic rewiring, miRNA expression and transfer, drug extrusion, cancer stem cell enrichment, communication between tumor cells and their microenvironment (stromal, endothelial and immune cells), gut microbiome activity. In this setting, circulating cancer cells and tumor DNA, cancer cell secretome and tumor-derived extracellular vesicles can be easily isolated from patient body fluids, representing innovative biomarkers of treatment response and tumor relapse. Thus, liquid biopsies are currently considered as an interesting tool for cancer detection but also to define the proper antitumor treatment regimens.

In this issue, we will describe the molecular mechanisms underlying the development of drug resistance in cancer and discuss the new therapeutic strategies aimed at preventing tumor progression and recurrence.

Prof. Dr. Patrizia Limonta
Guest Editor





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Prof. Dr. Samuel C. Mok

Department of Gynecologic
Oncology and Reproductive
Medicine, The University of Texas
MD Anderson Cancer Center,
Houston, TX 77030, USA

Message from the Editor-in-Chief

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Cancers Editorial Office
MDPI, Grosspeteranlage 5
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