



cancers



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The Role of Genetic and Epigenetic Aberrations in Cancer

Guest Editor:

Dr. Matthias Wirth

Department of Hematology,
Oncology and Tumor
Immunology, Charité-
Universitätsmedizin Berlin,
Campus Benjamin Franklin,
12203 Berlin, Germany

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Message from the Guest Editor

In recent decades, the combination of various high-throughput technologies and functional studies have identified and validated signaling pathways that are dysregulated in certain tumor types. Oncogenic mutations, genetic rearrangements, and epigenetic alterations leading to remodeled transcriptional activity and altered protein expression contribute to the malignant behavior of tumor cells. Genome-wide profiles of different tumor entities have revealed that similar mutations originally attributed to only one entity are also present in tumors at other anatomical sites. The identification of biomarkers and therapeutic targets have shown unprecedented efficacy in some cancers and marginal success in others. Thus, identifying patient subgroups that respond to molecular targeted therapies and elucidating primary resistance mechanisms by integrating molecular profiling and histopathological characteristics are important components to increase treatment efficacy and provide more precise therapeutic options.

Dr. Matthias Wirth
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
4052 Basel, Switzerland

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