



Molecular Biology of Cancer—Implications for Diagnosis and Treatment

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Message from the Guest Editors

Dear Colleagues,

Cancer has a genetic background. The expression of oncogenesis is an important event in the early stages of tumour formation. Most common cancers are caused by acquired mutations in somatic cells, whilst specific germline mutations account for rare hereditary cancer syndromes. Through cutting-edge technologies, including genomics, computational biology, tumour imaging, and in vitro and in vivo functional models, it has become feasible to identify genes involved in the development of cancer. Furthermore, advances in genomics technology facilitating the routine DNA and RNA sequencing of tumours, single-cell transcriptomic profiling of cancer cells, and whole-genome CRISPR screens have contributed to the growing success of oncology-precision-medicine-targeted therapies directed against tumours and components of the tumour microenvironment.

Through this Special Issue, we aim to shed light on novel molecular diagnostic technologies, along with new therapeutic approaches, based on recent advances in cancer biology and molecular genetics.





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Message from the Editor-in-Chief

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