



MicroRNA in Health and Tumor

Collection Editor:

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Message from the Collection Editor

Dear Colleagues,

MicroRNAs (miRNAs), short non-coding RNA, are involved in gene regulation, especially at the post-transcriptional level, and play a key role in a wide number of biological processes including differentiation, development, inflammation, immune response, drug resistance, and are usually dysregulated in many types of cancer. Moreover, miRNAs are differentially expressed in tumors compared to normal human tissues. Some of these altered miRNAs are overexpressed and known as oncomiR, which quicken tumor development, progression, dissemination. Contrarily, those that are downregulated in cancer patients are known as tumor suppressors. MiRNAs are also studied as biomarkers in clinical diagnosis and prognosis as well as indicator of treatment outcome and can be secreted as active molecule by different cell types.

This Topical Collection aims to focus on the role of miRNAs in controlling pivotal biological mechanisms that lead to oncogenic transformation, including tumor formation, growth and dissemination, therapy resistance, as well as diagnostic and prognostic significance in different cancer subtypes.

Dr. Francesca Lovat
Collection Editor





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Message from the Editor-in-Chief

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