



Non-coding RNA and Cancer: New Treatment Opportunities and Impact on Metastasis and Therapy Resistance

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Message from the Guest Editors

The advent of emerging molecular and genetic omics technologies has made a powerful contribution to understanding the biochemical alterations behind cancer development and progression. Cancer-associated specific molecular dysregulation is largely supported by noncoding RNAs, whose expression is, in turn, frequently altered in pathologic conditions as a result of mutations or copy number variations in non-coding DNA regions.

Due to their aberrant expression in human neoplasms, they can behave as either oncogenes or tumor suppressors in a tissue-specific manner, thus providing novel therapeutic opportunities to be translated into clinics for successful cancer treatment. Among the cancer-related processes controlled by ncRNAs, molecular regulatory networks governing metastasis are frequently investigated for the possible diagnostic and therapeutic applications of these molecules.

This Special Issue will explore the latest advances in ncRNA research, focusing on the regulatory function of ncRNAs in cancer-related processes with particular attention toward their advantages of commitment in metastatic events or drug resistance, as well as to their application as therapeutic agents.





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