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Non-coding RNA in Cancer: A Focus on Mechanisms of Action, Biomarker Properties, and Treatment Options

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Message from the Guest Editors

Non-coding RNAs (ncRNAs) are a group of RNA molecules transcribed from non-coding regions, which lack an open reading frame and, consequently, have no apparent protein-coding ability.

The current knowledge about ncRNAs as important regulators of gene expression at the transcriptional and post-transcriptional level, in both physiological and pathological conditions, has allowed the design of innovative anticancer strategies employing these epigenetic regulators as either therapeutic tools or molecular biomarkers. Therapeutic strategies to modulate ncRNAs' expression are recently emerging in virtue of their ability to influence cellular behavior; in detail, nc-RNA levels can be alternatively modulated by either oncosuppressive ncRNA mimics or inhibitors of oncogenic ncRNAs.

This Special Issue will report the newest advancement in the knowledge of cancer-related ncRNAs, underlying their functional role and covering the main aspects of their therapeutic application.



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Special Issue



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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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