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The Role of MicroRNA in Cancer

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Message from the Guest Editors

During the last decade, three classes of non-coding RNAs gained great attention. Among them, microRNAs, short (18–22 nucleotide in length) endogenous non-coding RNAs, play a role in regulating the expression of target genes at the post-transcriptional level. MicroRNAs are involved in the control of fundamental cell processes, such as growth, proliferation, differentiation, cell cycle, and programmed death. Dysregulation or aberrant microRNAs' expression levels and different profiles are described in important pathological conditions, such as cardiovascular, neurological diseases, and cancer.

In this Special Issue, we are interested in recent advances and opinions on the role of non-coding RNAs in oncogenesis. Research papers and reviews will focus on, but are not limited to, the role of microRNAs in tumorigenesis; microRNAs as biomarkers in cancer; therapeutic use of microRNAs in cancer, strategies and delivery systems to restore microRNA expression levels; microRNA preclinical models and bioinformatics approaches for miRNAs/target genes analysis.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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