

Special Issue

MicroRNA and Cancer

Message from the Guest Editor

MicroRNAs (miRs) are small noncoding RNAs that function as post-transcriptional regulators of gene expression and have important roles in almost all biological pathways. Deregulated miR expression has been detected in numerous cancers, where miRs act as both oncogene and tumor suppressors. Considering their important roles in tumorigenesis, miRs have been investigated as prognostic and diagnostic biomarkers and as useful targets for therapeutic intervention. From a therapeutic point of view, two modalities can serve to rectify gene networks in cancer cells. For oncomiRs, a rational means is downregulation through antagomirs. Moreover, observation of pathological reduction of tumor-suppressive miRs has inspired the concept of “miR replacement therapy” to enhance the amount of these miRs, thereby restoring them to normal levels. However, the clinical applicability of miR-based therapies is severely limited by the lack of effective delivery systems. Therefore, to understand the role of this new class of regulators, we need to identify the mRNA targets regulated by individual miR as well as to develop specific, efficient, and safe delivery systems of therapeutic miRs.

Guest Editor

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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.

Editor-in-Chief

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