



# MicroRNA and Cancer: Methods and Protocols (Methods in Molecular Biology)

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The tiny microRNAs (miRNAs) can have huge impacts on the regulation of a variety of genes and play crucial roles in the fundamental cellular processes. Recent miRNA studies change the landscape of cancer genetics by scrutinizing the alterations of genome-wide miRNA expressions in most common cancers and their regulatory functions during the development of cancer. The connections between miRNAs and cancer are widespread enough to warrant more comprehensive investigations in the systems biology perspective. In *MicroRNA and Cancer: Methods and Protocols*, internationally renowned experts provide the latest miRNA knowledge, the various techniques and methodologies currently available for cancer research application. Ranging from the fundamental concepts to practical applications, this book presents:

- Overview of microRNA biogenesis, computational prediction of new miRNAs in the cancer genome, and miRNA-based therapeutic approaches for cancer treatment
- Detailed experimental protocols in miRNA detection with novel and high-throughput technology, miRNA library cloning, miRNA epigenetic regulation, and miRNA pathway study
- Stepwise computational and bioinformatic procedures for miRNA complex networks in cancer genomes with a variety of softwares and programs
- Cross-cited notes on troubleshooting and avoiding known pitfalls

Authoritative and cutting-edge, *MicroRNA and Cancer: Methods and Protocols* serves researchers with the basic principles of experimental and computational methods for microRNA study in cancer research and provides a firm grounding for those who wish to further develop their own applications and tailor them to their own specific research needs.

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