

Special Issue

Transcriptomics in Human Health and Disease

Message from the Guest Editors

Transcriptomics, the study of messenger or non-coding RNA transcribed in a single cell or cells of the same tissue or cells of different tissues in the same organ, provides important insights into the gene expression patterns underlying health and disease. From PCR-based methods detecting a limited repertoire of RNA transcripts to the development of high-throughput sequencing technologies enabling the analysis of gene expression at a genome-wide scale. Results have led to major advancements in our understanding of various diseases and have facilitated the identification of specific dysregulated genes and pathways, as well as potential biomarkers and therapeutic targets. However, there are cumbersome technical challenges. As such, ongoing research efforts on refining and optimizing transcriptomic methods will aid our better understanding of the complexity of gene regulation in health and disease. This Special Issue welcomes original research and reviews focusing on transcriptomic insights in human conditions, host-microbiome interactions and precision approaches that utilize and highlight state-of-the-art methodologies.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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