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Transcriptomics in Human Health and Disease

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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.



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Message from the Editor-in-Chief

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