

## Special Issue

# Different Functions and Roles of microRNAs in Human Disease—Development, Progress and Challenges

### Message from the Guest Editor

The microRNAs (miRNAs) are a new class of small non-coding RNAs which function as negative regulators of gene expression. Currently there are approximately 1700 miRNAs in the human genome but they are able to exert control over thousands of genes. In this Special Issue, we highlight the role of these miRNAs in cancer, viral infections neurodegenerative diseases, metabolic diseases, and other related human diseases. Each review will provide an excellent snapshot of latest findings on these topical issues. Potential topics include but are not limited to the following:

- miRNAs in human diseases
- Alternative processing of microRNAs in diseases
- MicroRNA biogenesis in mammalian cells
- Role of MicroRNA in the development of immune system
- miRNA and drug response
- MicroRNAs (miRNAs) as a new class of biomarkers
- Circulating miRNA as diagnostics, and their role in cause and effect of a disease
- Technical and biological advances and challenges in miRNA detection, analysis, and medical integration.

### Guest Editor

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### Deadline for manuscript submissions

closed (15 October 2023)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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