



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

Guest Editor:

Dr. Nitin Saxena

Institute of Health and Sport,
Victoria University, Footscray,
Melbourne, VIC 3011, Australia

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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.**





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, St. Alban-Anlage 66
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