

Special Issue

Epigenetic Biomarkers— Technologies and Applications in Complex Disease Diagnostics and Beyond

Message from the Guest Editor

As DNA methylation and miRNA marks often represent an early event in the pathological process and are fairly stable and detectable in biological fluids, they are excellent biomarkers for liquid biopsy disease diagnosis. The availability of genome-wide technologies for DNA methylation and microRNA profiling, which are becoming more and more sensitive, has revolutionized the field of epigenetics and led to the discovery of a number of epigenetic biomarkers used in complex disease detection, as well as the prognosis, monitoring, and prediction of therapeutic responses.

In this Special Issue, we will discuss epigenetic biomarkers. The scope of this study ranges from the most basic to the most clinically applied mechanisms, incorporating methodologies, applications, and implications.

We request the submission of research articles or reviews on the following topics: DNA methylation, non-coding RNA, microRNA, liquid biopsy, extracellular vesicles, and technologies for epigenomics. In line with the journal's mission—IJMS is a journal of molecular science—pure clinical studies are not suitable, but clinical submissions with biomolecular experiments are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2025)



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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.

Editor-in-Chief

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