

## Special Issue

# Current Research in DNA Methylation

### Message from the Guest Editor

This Special Issue aims to collate cutting-edge research and comprehensive reviews addressing current challenges and emerging trends in DNA methylation research. Particular emphasis will be placed on integrative approaches that combine DNA methylation with other epigenetic and molecular layers, including histone modification, chromatin remodeling, and non-coding RNA regulation. This Special Issue aims to advance knowledge, stimulate debate, and foster innovation in DNA methylation research by compiling contributions from leading experts in the field, ultimately contributing to the development of new diagnostic and therapeutic strategies. For this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Molecular mechanisms of DNA methylation and demethylation;
- DNA methylation in development, aging, and disease;
- Epigenetic alterations in cancer and other complex diseases;
- DNA methylation as a biomarker for diagnosis and prognosis;
- Advances in epigenomic technologies and bioinformatics tools;
- Environmental and lifestyle influences on the methylome;
- Translational and clinical applications of DNA methylation research

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### Guest Editor

Dr. Mikhail M. Baryshev  
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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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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