

Special Issue

Genome Structure, Function and Dynamic Regulation of Cell Fate

Message from the Guest Editors

The cell nucleus is a sophisticated system, housing chromatin organized into territories and domains. It allows for simultaneous reactions and functions, essential for cellular specialization. Within the nucleus, biomolecules like RNA, proteins, and enzymes float freely, actively or passively transported to precise interaction points. This interplay of genome organization, structure, and dynamics is a breakthrough in research. Recent advancements have illuminated how genetic information is encoded and regulated, while epigenetic pathways impact chromatin organization. This Special Issue seeks cutting-edge research on chromatin remodeling, epigenetic regulation, DNA damage response, and transcriptional control, and their impact on cell fate. Contributions from global researchers are invited.

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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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