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Epigenetic Control of Chromatin Organization and Plasticity

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

The genomic information of each eukaryotic cell is packaged within the nucleus in the form of chromatin, a polymeric complex composed primarily of DNA and histone proteins, but also comprising noncoding RNA and multiplicity of structural nonhistone proteins. Nucleosomes act as fundamental units of chromatin packaging and play pivotal roles in the coordination between chromatin architecture and functions by means of epigenetic mechanisms. These include covalent modifications of DNA and histories, exchange of specialized histone variants into existing nucleosomes, nucleosome positioning and density, three-dimensional organization, noncoding chromatin RNAs, transcriptional regulatory networks. The harmonious combination of all these epigenetic mechanisms dynamically controls the degree of chromatin condensation and determines spatiotemporal patterns of gene transcription for a given cell/organism, thus contributing to an extensive range of biological processes. This Special Issue aims to cover recent progress in this exciting field of research.













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Editor-in-Chief

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Message from the Editor-in-Chief

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