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Chromatin Dynamics

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Message from the Guest Editors

Dear Colleagues,

Genomic DNA is packaged into chromatin, an arrangement that might seem to obstruct nuclear processes such as transcription, replication and DNA repair whose molecular machineries require access to specific genomic locations. However, it is now clear that the dynamic nature of chromatin is central to how these processes are ordered and regulated. The dynamic structural and spatial organization of chromatin embraces topics such as the structure, function and dynamics of nucleosomes, the role of histone variants, chromatin topology and supercoiling, chromatin remodeling machines, aspects of DNA repair, chromatin loops and long-distance chromatin interactions and the function of enhancers, insulators and other regulatory elements. This volume aims to cover recent progress in our understanding in this area.

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Prof. Dr. Caroline A. Austin
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