Special Issue

Dynamics of 3D Genome Organization

Message from the Guest Editors

Three-dimensional (3D) genome organization provides a physical scaffold and influences all DNA-based biological processes in the nucleus, including RNA transcription, DNA replication, DNA repair, etc. Our understanding of 3D genomes has been deepened by both microscopy- and sequencing-based methods. 3D genome organization experiences rearrangement during development, disease and environmental stress, and the dynamics of the 3D genome is important for the progress of these biological processes. In addition, the dynamics of the 3D genome is closely related with the regulation of other epigenetic modifications. More research in the dynamics of the 3D genome organization will not only give us clue for the mechanism of formation and change of chromatin structure but will also deepen our understanding of the roles of the 3D genome. In this Special Issue of Genes, we will highlight the most recent advances in the dynamics of 3D genome organization and its role in various biological process. We are also interested in new experimental and analysis techniques studying chromatin structure. We welcome reviews and original articles in the research area of 3D genome organization.

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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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