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Folding Principles of Human Brain Genome

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Deadline for manuscript submissions:

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Message from the Guest Editors

The three-dimensional structure of the human genome is an important regulatory unit for transcriptional control. The precise control of genome organization is essential for brain development and function, which is tightly coupled with complex spatiotemporal transcriptional programs. A deeper understanding of the mechanisms of the 3D chromatin structure, coupled with detailed maps of 3D chromatin contacts in a region- and cell-type-specific fashion will provide critical insights into the control of brain development, function, and disease.

In this Special Issue of “Folding Principles of Human Brain Genome,” we aim to bring together experts in 3D genome organization, gene regulation, and neuroscience to discuss recent advances in techniques to profile 3D genome in a cell-type-specific and high-resolution manner and discuss how these advances contribute to our understanding of brain biology. Collectively, this issue will provide a platform to demonstrate how 3D genome organization can revolutionize our understanding of gene regulatory mechanisms of brain development, function, and disease.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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.

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