

## Special Issue

# Chromatin and DNA Transcription, Replication, Repair and Recombination

### Message from the Guest Editor

Chromatin serves as the central platform orchestrating the essential processes of DNA transcription, replication, repair and recombination. Recent advances in chromosome conformation capture and high-resolution imaging have revealed that chromatin structure and 3D genome organization are highly dynamic and tightly regulated across cellular contexts. Understanding how these multilayered chromatin architectures modulate DNA-associated processes is fundamental to elucidating the mechanisms that safeguard genomic integrity and to revealing how their dysregulation contributes to diseases. This Special Issue aims to bring together original research articles and reviews that explore the interplay among chromatin structure, 3D genome organization, loop extrusion and DNA transcription, replication, repair and recombination, spanning from mechanistic investigations to evolutionary perspectives. Contributions addressing genome instability, chromatin- and loop-extrusion-associated diseases as well as emerging technologies for probing chromatin dynamics, are particularly welcome.

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### Guest Editor

Dr. Adam Yongxin Ye  
Harvard Medical School, Boston, MA, USA

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### Deadline for manuscript submissions

15 November 2026

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## Genes

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*Genes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto:genes@mdpi.com)

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### Message from the Editor-in-Chief

*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?

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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
Experimental Cancer Therapeutics, The University of Alabama at  
Birmingham, 1825 University Blvd., SHEL 814, Birmingham, AL 35294-  
2182, USA

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