

## Special Issue

# Maintenance of DNA Structure and Genome Stability

### Message from the Guest Editor

The maintenance of genome stability is essential to viability. To achieve this, there are numerous protein–protein complexes required to minimize DNA damage.

During the successful DNA replication, there is a close interplay between the genetic recombination and DNA replication machinery. Replisomes often collide with transcription complexes, risking genome integrity—especially in prokaryotes, where coupled transcription and translation creates massive roadblocks. Unusual DNA structures, RNA-DNA hybrids, and exogenous damage further threaten cells, with unrepaired damage potentially leading to diseases like cancer.

This special issue explores the interplay between replication, transcription, and repair mechanisms. We welcome submissions from researchers studying these critical processes. Join us in advancing this essential field!

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### Guest Editor

Dr. Piero R. Bianco

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### Deadline for manuscript submissions

25 September 2025

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## Genes

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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  
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