# Special Issue

# Research on Molecular Mechanisms of DNA Damage

## Message from the Guest Editor

Throughout the life of a cell, its genome is exposed to a large variety of DNA damages, including DNA base lesions, inter-strand crosslinks, and single- or double-strand breaks. Failure to repair such lesions leads either to cell death, genomic instability, and cancer predisposition. The study of DNA break repair mechanisms is an extremely active field with very important medical implications in the field of cancer. Recent molecular biology and microscopy technologies have provided us with the opportunity to study DNA repair at an unprecedented level. We invite investigators to contribute original research articles, as well as review articles that will stimulate the continuing research efforts in the field of DNA repair. Potential topics for the Special Issue include, but are not limited to, the following:

- molecular and structure biology of DNA repair
- chromatin dynamics during DNA repair
- 3D genome organization in repair mechanisms
- liquid–liquid phase separation
- mechanobiology and DNA repair
- inhibitors of DNA damage proteins for cancer therapy
- link between DNA damage and neurological diseases

## Guest Editor

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## Deadline for manuscript submissions

closed (15 December 2025)

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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?

## Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
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