

## Special Issue

# Epigenetic Dynamics in Cancer and Aging

### Message from the Guest Editor

Epigenetic alterations, including DNA methylation, histone modifications, and chromatin remodeling, play a critical role in the initiation, progression, and metastasis of cancer. These modifications not only drive tumorigenesis but also influence patient responses to cancer therapies.

We invite submissions of novel research, comprehensive reviews, and interdisciplinary insights that bridge the gap between epigenetics, cancer biology, and precision medicine. We particularly welcome manuscripts with a strong focus on epigenetics, especially those that highlight recent technological advances. In this Special Issue, we aim to explore the following topics:

- Epigenetic Mechanisms in Cancer Initiation and Development;
- Cancer Epigenetics and Tumor Microenvironment;
- Epigenetic Biomarkers for Cancer Diagnosis and Prognosis;
- Epigenetic Therapies in Cancer;
- Precision Medicine and Epigenetics;
- Epigenetic Reprogramming in Cancer Stem Cells;
- Single-Cell Epigenetics in Identifying Rare Cell Populations.

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### Guest Editor

Dr. Hayan Lee

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### Deadline for manuscript submissions

30 October 2025

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## Genes

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## About the Journal

### 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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