Special Issue

Epigenetic Mechanisms of Tumorigenesis

Message from the Guest Editor

Tumorigenesis, the complex process by which normal cells transform into cancerous ones, is influenced by genetic mutations and epigenetic alterations. Epigenetic mechanisms, including DNA methylation, histone modifications, and non-coding RNA interactions, have a critical role in regulating gene expression without altering the underlying DNA sequence. These mechanisms are pivotal in maintaining cellular identity and function, but when disrupted, they can lead to aberrant gene expression profiles, contributing to cancer initiation and progression. This Special Issue delves into the diverse epigenetic landscapes that drive tumorigenesis, exploring the latest research on how these modifications contribute to the onset and progression of various cancers. By understanding these processes, we can uncover novel biomarkers for early detection and therapeutic targets to develop more precise and effective cancer treatments. This compilation of studies and reviews provides a comprehensive overview of the current state of epigenetic research in oncology, highlighting both the challenges and opportunities in this rapidly evolving field.

Guest Editor

Prof. Dr. Hengbin Wang

Department of Internal Medicine, Division of Hematology, Oncology and Palliative Care, Massey Comprehensive Cancer Center, Virginia Commonwealth University, Richmond, VA, USA

Deadline for manuscript submissions

31 July 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/214601

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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