

Special Issue

Current Advances in Cancer Genomics

Message from the Guest Editor

Cancer is driven by diverse genetic and epigenetic alterations that underlie tumor initiation, progression, and therapeutic resistance. Recent breakthroughs in high-throughput sequencing, single-cell and spatial genomics, and integrative multi-omics have significantly advanced our understanding of cancer biology, enabling new opportunities for precision medicine. However, challenges remain in translating genomic insights into reliable diagnostic tools, prognostic markers, and targeted therapies. This Special Issue, Current Advances in Cancer Genomics, aims to highlight the latest research and comprehensive reviews that advance our understanding of cancer through genomic approaches. By bringing together diverse perspectives from basic, computational, and clinical research, this Special Issue will provide an interdisciplinary platform to advance our understanding of cancer genomics and its applications in precision oncology. We welcome original research articles, reviews, and perspectives that focus on, but are not limited to, genomic and epigenomic alterations, regulatory mechanisms, single-cell and spatial genomics, computational approaches, and clinical applications.

Guest Editor

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Deadline for manuscript submissions

31 October 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/254776

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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