

Special Issue

Decoding RNA Modifications in Cancer Biology

Message from the Guest Editor

RNA modifications, such as *N*6-methyladenosine (m6A) and pseudouridine, have emerged as key regulators of gene expression at the post-transcriptional level. These chemical markers dynamically modulate RNA stability, translation, splicing, and localization, thereby shaping fundamental processes in cell fate determination. In cancer biology, the dysregulation of RNA modification “writers”, “readers”, and “erasers” has been increasingly recognized as a driving force behind tumor initiation and progression. This Special Issue will highlight advances in understanding the molecular mechanisms behind RNA modifications in cancer, with an emphasis on how these epitranscriptomic modifications reprogram gene expression networks, influence tumor progression, and contribute to therapeutic resistance. We welcome original research articles and reviews that investigate mechanistic insights, advance high-throughput mapping technologies, dissect RNA modification-associated signaling pathways, and reveal their therapeutic potential in cancer biology.

Guest Editor

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Deadline for manuscript submissions

31 October 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/255158

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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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