Special Issue

Decoding RNA Modifications in Cancer Biology

Message from the Guest Editor

RNA modifications, such as N6-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 the rapeutic resistance. We welcome original research articles and reviews that investigate mechanistic insights, advance high-throughput mapping technologies, dissect RNA modificationassociated signaling pathways, and reveal their therapeutic potential in cancer biology.

Guest Editor

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