

Special Issue

Emerging Topics in Epitranscriptomics (RNA Modifications)

Message from the Guest Editor

Despite our early understanding of RNA as an enabling messenger, it is not simply a static reflection of genetic activation. Upon transcription from the DNA template, RNA can be modified by various enzymes, which results in over 140 different types of RNA modifications across various organisms. These RNA modifications include N1-methyladenosine (m1A), 5-methylcytosine (m5C), N6-methyladenosine (m6A), pseudouridine (Ψ), and RNA editing. These chemical modifications of RNA influence cellular activities, such as conformational/structural changes of RNAs, nuclear–cytoplasmic shuttling, RNA stability, splicing, and translation efficiencies. To further understand this exciting area of study, in this Special Issue, we invite manuscripts regarding methods for detecting epitranscriptomic marks, analyzing epitranscriptomic data, screening assays for understanding the importance of RNA modifications in cellular activities, and how such dysregulations are linked to various diseases.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2020)

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