

Special Issue

RNA Modifications and Epitranscriptomics in Human Disease

Message from the Guest Editor

Epitranscriptomic changes are important for cell differentiation, sex determination, and stress responses. As well as being non-genetically encoded, they can be reversible and involved in genetic regulation. The recent discovery of writers, readers, and erasers of modifications that affect a diverse range of RNAs and tissues, integrative approaches have been developed for mapping, the modifications, etc. RNA modulation maps and their crosstalk have revealed that they serve as signaling switches, raising suspicions that an epitranscriptomic code governs the post-transcriptional fate of RNA, which contributes to human diseases.

Through the development of single-molecule sequencing technologies and antibodies specific to various RNA modifications, transcript-specific epitranscriptomic marks can be discovered across cell types and their abnormalities in disease. Topics of this Special Issue include, but are not limited to:

- RNA modification mapping;
- RNA modifications and RNA structure;
- Methods for profiling and mapping RNA modifications;
- Epitranscriptome in diseases.

Guest Editor

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