

Special Issue

Molecular Mechanisms of mRNA Transcriptional Regulation

Message from the Guest Editor

Regulation of mRNA transcription is a highly dynamic process mediated by various molecular events which include specific DNA–protein, RNA–protein, RNA–RNA as well as DNA–RNA interactions. This complex process can be controlled at several steps, including the initial recruitment and assembly of the transcriptional machinery, transcription initiation, transcription pausing, transcription elongation, as well as termination phases. In addition, regulation of mRNA biogenesis and degradation involves the participation of various non-coding RNAs (ncRNAs), such as microRNAs, endogenous siRNAs, small nuclear RNAs, long ncRNAs, circular RNAs, and enhancer RNAs. This Special Issue focuses on the roles of different classes of RNAs and proteins regulating mRNA expression in mammalian cells. In particular, studies involving advanced deep sequencing, proteomics, and novel bioinformatics algorithms for RNA research are highly welcomed. The formats for submission include original research reports, reviews, and communications.

Guest Editor

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