

Special Issue

Mechanism and Regulation of Pre-mRNA Splicing: 3rd Edition

Message from the Guest Editor

In eukaryotes, most gene transcripts or pre-mRNAs are interrupted by intervening sequences termed introns, which are precisely removed by a process called splicing. This process is essential since spliced mRNAs serve as templates for proteins. Regulation in the splicing process is certainly crucial for a wide variety of biological and physiological phenomena. The process is therefore highly discriminatory and faithful, and mis-regulation in this process causes disorders in cell functions, often with severe clinical consequences.

This Special Issue will cover, but is not limited to, the following topics:

The mechanism and regulation of constitutive and alternative splicing;

The mechanism and regulation of splicing-linked post-splicing processes;

Pre-mRNA–protein interactions involved in splicing and splicing-linked processes;

hnRNP/mRNP assembly and functions in splicing and splicing-linked processes;

Evolutional studies of pre-mRNAs and splicing;

Pre-mRNA processing in development and diseases including cancers.

Guest Editor

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