

Special Issue

Mechanism and Regulation of Pre-mRNA Splicing

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 misregulation 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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