Special Issue

Regulation Mechanism of Gene Expression Mediated by Transposon

Message from the Guest Editor

Transposons are a rich source of transcriptional regulatory elements, including enhancers, promoters, splicing and termination sites, and regulatory non-coding RNAs. Increasing evidence has shown that TEs can mediate the rewiring of gene regulatory networks in the context of pluripotency, innate immunity, and placentation. In addition, due to the development of CRISPR-based genome-editing technologies, we can also test for causal relationships between TE insertions and gene regulation. However, because of the repetitive nature, deciphering the potential regulatory roles of transposons remains challenging, requiring the development of specialized experimental and computational tools. In this Special Issue, we present a series of articles laying out the current understanding in the field, discussing potential applications for future research.

Guest Editor

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