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Regulation Mechanism of Gene Expression Mediated by Transposon

Guest Editor:

Prof. Dr. Xiao-Ou Zhang

School of Life Sciences and
Technology, Tongji University,
Shanghai 200092, China

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Xiao-Ou Zhang

Guest Editor



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Special Issue



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Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in
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Barcelona Institute of Science
and Technology, 08028
Barcelona, Spain

Message from the Editor-in-Chief

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Life Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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