

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

Prof. Dr. Xiao-Ou Zhang

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

Deadline for manuscript submissions

closed (25 November 2022)



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/108226

Life
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

mdpi.com/journal/

[life](https://life.mdpi.com)





Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
life](https://mdpi.com/journal/life)



About the Journal

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)