Special Issue

Epigenetics and Development

Message from the Guest Editor

Once dubbed a series of chemical tags that modify DNA and its associated structures, today's view of the epigenome during development resembles a dynamic rollercoaster ride that shapes all stages of the development of an organism through mechanisms as diverse as DNA methylation, histone modifications, remodeling via ATP-dependent chromatin complexes, histone variant exchange, Polycomb complex mediated gene silencing, chromatin dynamics, heterochromatin effects on mitotic spindle anchorage, and interactions with environmental factors from nutrition to drugs and stress. While it is clear that epigenetics plays major roles in development, our understanding of the mechanisms involved and their effects on cellular differentiation and organ development is still in its infancy. Recent studies have been able to whet our appetite to understand the role of the epigenome in development, but there is much to learn, and our Special Issue is destined to explore and bridge some of our knowledge gaps.

Guest Editor

Prof. Dr. Thomas G. H. Diekwisch School of Medicine and Dentistry, University of Rochester, Rochester, NY, USA

Deadline for manuscript submissions

closed (20 March 2023)



Journal of Developmental Biology

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.5
Indexed in PubMed



mdpi.com/si/64791

Journal of Developmental Biology Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 jdb@mdpi.com

mdpi.com/journal/ jdb





Journal of Developmental Biology

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.5 Indexed in PubMed





Message from the Editor-in-Chief

The Journal of Developmental Biology (JDB) publishes original research papers and timely reviews. Our primary aim is to provide a platform for the publication of studies on the development of multicellular organisms efficiently and professionally; papers undergo a fast, yet thorough, peer-review process. JDB is an open access journal and accepted contributions are published immediately online, providing unlimited access to the scientific community and general public. We look forward to receiving your contribution to our journal and to working with fellow researchers.

Editor-in-Chief

Prof. Dr. Simon J. Conway

Herman B Wells Center for Pediatric Research, Indiana University School of Medicine, 1044 West Walnut Street, Indianapolis, IN 46202, USA

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.2 days after submission; acceptance to publication is undertaken in 5.9 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.

