



## Epigenetics and Development

Guest Editor:

**Prof. Dr. Thomas G. H.  
Diekwisch**

Department of Periodontics,  
Texas A&M University College of  
Dentistry, 3302 Gaston Ave.,  
Dallas, TX 75246, USA

Deadline for manuscript  
submissions:

**closed (20 March 2023)**

### 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.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Simon J. Conway

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

## 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.

## Author Benefits

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

**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 19.1 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2023).

## Contact Us

*Journal of Developmental Biology*  
Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/jdb](http://mdpi.com/journal/jdb)  
[jdb@mdpi.com](mailto:jdb@mdpi.com)  
[X@JDBMDPI](https://twitter.com/JDBMDPI)