

## Special Issue

# Embryonic Development and Regenerative Medicine

### Message from the Guest Editors

Embryonic development is a highly orchestrated process that governs the formation of tissues and organs, driven by intricate genetic, molecular, and cellular interactions. Understanding the fundamental mechanisms of development not only provides insights into congenital disorders but also serves as the foundation for regenerative medicine, which aims to restore damaged tissues and organs. This Special Issue seeks to explore recent advances in embryogenesis, stem cell biology, tissue regeneration, and translational applications in regenerative medicine. We welcome original research articles and reviews focusing on the following areas:

- Molecular and genetic regulation of embryonic development;
- Stem cell differentiation and lineage commitment;
- Regenerative potential of embryonic and adult stem cells;
- Bioengineering approaches for tissue regeneration;
- Organoids and in vitro models of development;
- Epigenetic regulation in development and regeneration;
- Implications for congenital diseases and regenerative therapies.

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### Guest Editors

Prof. Dr. Lon J. van Winkle

Prof. Dr. Philip M. Iannaccone

Prof. Dr. Rebecca Jean Ryznar

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### Deadline for manuscript submissions

25 December 2025



## Journal of Developmental Biology

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

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## About the Journal

### 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.

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### 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

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