

Special Issue

Neuro-Vascular Interactions in Development and Disease

Message from the Guest Editor

For this Special Issue, we invite contributions describing developmental mechanisms that underlie the establishment of neurovascular connections and neurovascular congruence during embryonic and postnatal development. Specifically, the theme covers novel research contributions including, but not limited to, the following topics:

- vascularisation of the nervous system, including the brain, spinal cord, ganglia and eye
- establishment of the blood brain and blood retina barriers.
- co-patterning of nerves and vessels and their use of shared guidance cues
- molecular and cellular cross-talk of vessels with glia and neurons.
- establishment of vascular inflammatory barriers to protect the nervous system
- establishment of transport mechanisms across the vascular and astroglial compartments to supply neurons

We look forward to original contributions and will publish them after completion of the peer review and revision process individually, ensuring a rapid peer review process to accelerate the visibility of individual contributions already prior to release of the Special Issue.

Guest Editor

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Deadline for manuscript submissions

26 March 2027



Journal of Developmental Biology

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 4.7
Indexed in PubMed



mdpi.com/si/275773

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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.

Editor-in-Chief

Prof. Dr. Simon J. Conway

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).