Special Issue

10th Anniversary Special Issue of *JDB*—Advances in Developmental Blood Vessel Growth

Message from the Guest Editor

New blood vessel growth occurs throughout vertebrate life, from the earliest stages of placentation and organ formation to the period of postnatal development, because all metabolically active cells require proximity to a blood capillary for oxygenation and nutrition, and often also for instructive signals. Blood vessel growth is therefore actively induced and regulated by organs in need of a vascular supply. Blood vessels also transport cytokines, hormones and immune cells to impact normal and abnormal development, and we now know that the various different cell types that constitute blood vessels also release signals to instruct and modulate organ growth and patterning. Vice versa, tissue mechanics and hemodynamic forces promote the remodelling and survival of functional vascular networks or instruct the structural adaptations of vessel walls. Understanding such key developmental processes holds much promise to identify new therapeutic strategies with the aim to prevent congenital vascular diseases, reverse abnormal vascular remodelling in adult disease or to stimulate functional new vessel growth in ischemic diseases.

Guest Editor

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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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