



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

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### Message from the Guest Editor

Dear Colleagues,

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.





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## Message from the Editor-in-Chief

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