

Special Issue

Molecular and Cellular Mechanisms of Vascular and Tissue Formation

Message from the Guest Editors

New blood vessels can also be critical to coordinating tissue repair or regeneration and preventing the deregulated, disease-promoting process. Abnormal morphogenesis of new blood vessels involves various pathophysiological processes such as cancer, ischemic vascular diseases, diabetes and Alzheimer's disease. A better understanding of the molecular basis for vascular network morphogenesis will impact the development of new therapeutic strategies to target the microvasculature and angiogenesis in such diseases. This Special Issue welcomes original research articles and review papers on all molecular and cellular aspects of vascular formation and its interrelation with tissue formation/repair. Potential topics include, but are not limited to, the following: Autocrine and paracrine signaling in vascular developmentMolecular mechanisms of vascular lumen formationCell signaling paracrine in post-natal angiogenesisTumor microenvironment and angiogenesisIschemia-induced angiogenesisVascular malformations of the brainNeurovascular diseasesMolecular mechanisms of angiogenesis in exercise

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Deadline for manuscript submissions

closed (10 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
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Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



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Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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