

Special Issue

Adult Stem Cells and Endothelial Progenitor Cells in Diseases

Message from the Guest Editor

Endothelial progenitor cells (EPCs) represent a subpopulation of mononuclear cells (MNCs) that are recruited to replace senescent/injured vascular endothelial cells, reconstruct injured vessels, and restore local blood flow upon an ischemic insult. Furthermore, EPCs play a crucial role during the angiogenic switch that supports vascularization, growth, and metastasis in solid tumours. Autologous myeloid angiogenic cells (MACs) were probed in no less than 150 registered interventional clinical trials to induce therapeutic angiogenesis in multiple cardiovascular disorders. Moreover, interfering with EPC recruitment to tumour sites is regarded as an alternative strategy to interfere with tumour growth and metastasis in cancer patients. New research results are also emerging on the role of microRNAs in the pathways related to EPCs. I am therefore pleased to invite all of you to participate in this Special Issue by presenting your most recent research or ideas about the definition, identity, pathophysiology, and therapeutic application of EPCs. Original research articles and comprehensive review papers are all welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2023)



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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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