Special Issue

Angiogenesis and Anti-angiogenesis in Health and Diseases

Message from the Guest Editor

Angiogenic switch is an important event during tumor progression where the balance between pro and antiangiogenic factors slope towards a proangiogenic outcome, leading to the transition from avascularized neoplasia to a vascularized tumor. Tumor vessels often appeared abnormal in shape and function, and they are more loosely connected with surrounding cells, influencing drug delivery. Therefore, preclinical and clinical studies have focused on the role of mural cells, stabilizing the tumor vasculature through various signaling pathways, which influence many hallmarks of cancer. However, both defective vasculature and excessive ECM generation and pericyte coverage represent a physical barrier for effective drug delivery, leading to the resistance to the anti-tumor therapies. Angiogenesis is also occurring under other pathological conditions, such as diabetic retinopathy, ischemic stroke and atherogenesis. Current efforts aim to advance research toward the discovery of new molecular targets, gene profiling, resistance mechanisms, and diagnostic and prognostic markers to overcome disease progression by improving the therapeutic options.

Guest Editor

Dr. Elmina Mammadova-Bach

Walther-Straub-Institute for Pharmacology and Toxicology, Ludwig-Maximilian-University, 80336 Munich, Germany

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Biomedicines
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomedicines@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Felipe Fregni
1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

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