



life



an Open Access Journal by MDPI

Microvascular Dynamics: Insights and Applications

Guest Editors:

Dr. Aristotle G. Koutsiaris

MIBI Laboratory, Faculty of
Medicine, University of Thessaly,
41500 Larissa, Greece

Prof. Dr. Friedrich Jung

Institute of Biotechnology,
Molecular Cell Biology,
Brandenburg University of
Technology, Senftenberg,
Germany

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Dear Colleagues,

Microvascular dynamics can be affected by a variety of factors, such as microvessel geometry, fluid rheology, cell aggregability and deformability, special proteins and drugs, local tissue, and pathological conditions such as microthrombosis, sickle cell disease, retinopathy, and nephropathy. In addition, microvascular dynamic quantities such as velocity and aggregation can be used as biomarkers in medicine to characterize a normal or abnormal biological process, disease, or pharmacological response.

The scope of this Special Issue is to accept original research and reviews on the latest developments in microvascular dynamics. Articles can describe diverse insights into microvascular dynamics from in vitro and in silico measurements and modeling, new molecular mechanisms, animal models, and preclinical or clinical studies. In addition, technological advances in imaging hardware and software methods and setups are welcome.

Dr. Aristotle G. Koutsiaris

Prof. Dr. Friedrich Jung

Guest Editors



mdpi.com/si/203511

Special Issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us

Life Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)