

Special Issue

Genetics and Epigenetic Mechanisms of the Neurovascular Unit

Message from the Guest Editors

Maintenance of Neurovascular Unit (NVU) integrity is essential for homeostasis of the central nervous system (CNS), and it is ensured by a multicellular bidirectional crosstalk. Several secreted neurotrophic and growth factors act in a paracrine manner, contributing to the correct development and function of both nervous and endothelial cells. Neurovascular unit impairment is linked to several CNS pathological conditions leading to epigenetic reprogramming within NVU cells.

In this Special Issue will be welcome papers dealing with molecular genetics and epigenetics applied to clarify mechanisms of neurovascular development and signaling. Moreover, the Special Issue aims to identify genetic, epigenetic, and epitranscriptomic factors associated to NVU properties that can contribute to NVU impairment. Therefore, original articles and reviews focusing on NVU physiology and pathology are highly encouraged, as well as papers aiming to better characterize the role of a single cell type in NVU crosstalk. Expression studies will also be considered. Finally, studies are not limited to human samples, and results obtained by in vitro observations and animal models are also accepted.

Guest Editors

Dr. Concetta Scimone

Dr. Rosalia D'Angelo

Prof. Dr. Antonina Sidoti

Deadline for manuscript submissions

closed (15 December 2021)



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/59947

Life
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

[mdpi.com/journal/
life](https://mdpi.com/journal/life)





Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
life](https://mdpi.com/journal/life)



About the Journal

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.

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

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, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)