

Special Issue

Exploring Enteric Glia: Implications for Gastrointestinal and Systemic Disorders

Message from the Guest Editor

Gastrointestinal (GI) reflex functions are directly regulated by the enteric nervous system (ENS), a network of neurons and glial cells within the gut wall. Unlike neuronal cell bodies, enteric glia are present in all layers of the gut wall, including mucosa and muscle. They are strategically positioned to mediate interactions between the innervation and other cell types in the bowels. Enteric glial cells are recognized as local regulators of gut functions in health and disease. These glial cells actively regulate intestinal reflexes such as gut motility and secretomotor function, and in inflammation, enteric glia change their phenotype and mediate pathophysiology. Gut dysfunction affects not only the GI system but overall well-being; conversely, many systemic disorders also affect intestinal function. Therefore, enteric glia are implicated in intrinsic intestinal and extraintestinal disorders, including inflammatory bowel disease, irritable bowel syndrome, and metabolic, neurodegenerative, and neurodevelopmental disorders. This Special Issue explores the novel roles of enteric glial cells in the pathophysiology of GI and systemic disorders.

Guest Editor

Dr. Vladimir Grubišić

Department of Biomedical Sciences, College of Osteopathic Medicine,
New York Institute of Technology, Old Westbury, NY 11568-8000, USA

Deadline for manuscript submissions

closed (31 May 2025)



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/221295

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)