Special Issue

Microglia, Behavior, and Sex Differences: Neuroimmune Mechanisms in Development and Disease

Message from the Guest Editor

Microglia, the resident immune cells of the central nervous system, play essential roles not only in immune surveillance but also in shaping brain development, synaptic plasticity, and behavioral outcomes. In recent vears, increasing evidence has shown that microglial function implicated in the pathophysiology of numerous neurological and psychiatric disorders, including autism spectrum disorders, depression, Alzheimer's disease, and multiple sclerosis. This Special Issue aims to gather cutting-edge research that advances our understanding of microglial biology and its impact on neurodevelopment and disease, with a particular focus on behavioral outcomes and sex-specific mechanisms. We welcome original research articles and reviews addressing topics such as microglial ontogeny, sex hormones and neuroinflammation, behavioral consequences of microglial dysregulation, and the development of sex-specific therapeutic strategies. We believe this Special Issue will serve as a valuable reference for researchers working in the fields of neuroimmunology, behavioral neuroscience, and neurodevelopment.

Guest Editor

Dr. Irene García Domínguez

Departamento Ciencias de la Salud y Biomédicas, Facultad de Ciencias de la Salud, Universidad Loyola Andalucía, 41074 Sevilla, Spain

Deadline for manuscript submissions

28 May 2026



Life

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/255542

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

mdpi.com/journal/ life





Life

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.0 Indexed in PubMed



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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

