Special Issue

Bioactive Lipids in Neuroinflammatory Diseases

Message from the Guest Editors

Endogenous bioactive lipids such as arachidonic acid-derived autacoids, sphingolipids, specialized pro-resolving mediators, endocannabinoids, and fatty acyl esters of hydroxy fatty acids are the effectors of a convoluted signaling network that controls initiation, coordination, and resolution of the inflammatory event; as a matter of fact, these molecules act on all cellular and molecular events of host defense, control phenotype, differentiation, and recruiting and trafficking of all immune cells, as well as their ability to influence tissue homeostasis through soluble mediators. More importantly, the disruption of these lipid molecular networks, or their dysfunctional activity, is a primary event in the aberrant immune response that leads to neuroinflammatory damage of many—if not all—neurodegenerative diseases. This issue focuses on gathering the most recent molecular evidence on the involvement of endogenous bioactive lipids in neurodegenerative conditions, their role in kickstarting or preventing tissue damage, and their perspective either as possible therapeutic targets or diagnostic tools.

Guest Editors

Dr. Alessandro Leuti

Campus Bio-Medico University of Rome, European Center for Brain Research Santa Lucia Foundation, Rome, Italy

Dr. Giorgio Vivacqua

1. Integrated Research Center, Campus Biomedico University of Roma, Rome, Italy
2. Department of Clinical Neuroscience, The University of Cambridge, Cambridge, UK

Deadline for manuscript submissions

closed (10 January 2025)

Metabolites

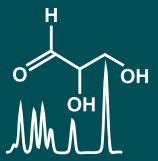
an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed

mdpi.com/si/127629

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

mdpi.com/journal/metabolites



Metabolites

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed

mdpi.com/journal/metabolites

MDPI

About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

Dr. Amedeo Lonardo
Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.7 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the second half of 2025).