Special Issue

Carbonic Anhydrases and Metabolism

Message from the Guest Editor

Carbonic anhydrases (CAs, EC 4.2.1.1) are metalloenzymes present in all life kingdoms, as they equilibrate the reaction between three simple but essential chemical species: CO2, bicarbonate, and protons. Inhibition of the CAs has pharmacologic applications in many fields. CAs also play a crucial role in other metabolic processes connected with urea biosynthesis, gluconeogenesis, etc. In organisms other than mammals, e.g., plants, algae, and cyanobacteria, CAs are involved in photosynthesis, whereas, in many parasites (fungi, protozoa), they are involved in the de novo synthesis of important metabolites (lipids, nucleic acids, etc.). The metabolic effects related to interference with CA activity were, however, scarcely investigated. The present Special Issue of *Metabolites* has the goal of filling this gap, by presenting the latest developments in the field of CAs and their role in metabolism.

Guest Editor

Prof. Dr. Claudiu T. Supuran

NEUROFARBA Department, Sezione di Scienze Farmaceutiche, University of Florence, Via Ugo Schiff 6, I-50019 Sesto Fiorentino, FI, Italy

Deadline for manuscript submissions

closed (21 December 2018)

Metabolites

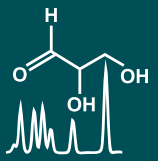
an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed

mdpi.com/si/8996

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 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).