



Carbonic Anhydrases and Metabolism

Guest Editor:

Prof. Dr. Claudiu T. Supuran

Neurofarba Department, Section
of Farmaceutical and
Neutraceutical Sciences,
University of Florence, Sesto
Fiorentino, 50019 Florence, Italy

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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Claudiu T. Supuran

Guest Editor





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Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale
Civile di Baggiovara, Azienda
Ospedaliero-Universitaria, 41126
Modena, Italy

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.

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Metabolites Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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