

Special Issue

Carbonic Anhydrase and Biomarker Research 2022

Message from the Guest Editor

Carbonic anhydrase is a widely distributed metalloenzyme catalysing the reversible hydration of CO_2 to HCO_3^- and H^+ . It plays a fundamental role in a number of physiological processes. Recently, its involvement in several pathological conditions, as well as sensitivity to chemical pollutants, has advanced the research on carbonic anhydrase in the biomarker discovery field. In recent years, alterations in the expression of specific carbonic anhydrase isoforms have been proposed as diagnostic or prognostic biomarkers in the clinical field, mainly in cancer research. Moreover, the sensitivity of specific carbonic anhydrase isoforms to environmental pollutants has given rise to new perspectives in the potential use of carbonic anhydrase as a pollution biomarker. This Special Issue of *IJMS* is aimed to cover the more recent insights into the research of carbonic anhydrase as a promising biomarker in several areas of interest, from human health to environmental sciences, opening new perspectives for the translation of advances in basic sciences on this ancient enzyme into innovative applications.

Guest Editor

Dr. Maria Giulia Lionetto

1. Department of Environmental and Biological Sciences and Technologies (DiSTeBA), University of Salento, Via per Monteroni, 73100 Lecce, Italy
2. National Biodiversity Future Center (NBFC), 90133 Palermo, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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