

Special Issue

Carbonic Anhydrase and Hypoxia

Message from the Guest Editor

Hypoxia is a key phenomenon associated not only with tumors but cardiovascular diseases as well. Its importance in physiological processes was raised by the Nobel prize winners in Physiology or Medicine in 2019. However, there are other factors of great significance, such as the “old-fashioned” enzymes, which are inevitably involved in disease progression. Among the family of carbonic anhydrases, CAIX and CAXII used to be considered the enzymes regulated by hypoxia. It now seems there are other enzymes, isotopes of this family (e.g., CAII or CAIII), which may also be the game changers. Therefore, I believe that this Special Issue should be broadly conceived and targeted toward the role of carbonic anhydrases in hypoxia, with a primary focus on the regulators of their enzymatic activity. We should concentrate on studies which are engaged in the relevance of hypoxia in the activity of these enzymes. Besides basic research I also suggest a focus on diagnostics and therapy, and call in experts in physiological hypoxia or inhibitors (SMIs or antibodies).

Guest Editor

Prof. Dr. Jaromír Pastorek

Biomedical Research Centre, Department of Tumor Biology, Institute of Virology, Slovak Academy of Sciences Dubravská cesta 9, 84505 Bratislava, Slovakia

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
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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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