





an Open Access Journal by MDPI

Bacterial Chemoreceptors

Guest Editors:

Dr. Tino Krell

Department of Environmental Protection, Estación Experimental del Zaidín, Consejo Superior de Investigaciones Científicas, 18008 Granada, Spain

Dr. Miguel A. Matilla

Department of Environmental Protection, Estación Experimental del Zaidín, Consejo Superior de Investigaciones Científicas, 18008 Granada, Spain

Deadline for manuscript submissions:

closed (20 July 2020)

Message from the Guest Editors

Dear Colleagues,

A chemotactic response is initiated by the chemoeffectormediated stimulation of chemoreceptors. For the large majority of chemoreceptors, the function or the corresponding chemoeffectors are unknown, and such information will help to identify the forces that have shaped the evolution of chemoreceptors. Contrary to a wide-spread misconception within the scientific community, not all chemoreceptors are involved in chemotaxis, and there is paucity of information on receptors that carry out alternative cellular functions. Most of what we know on chemoreceptor function derives from the study of Escherichia coli proteins. However, research over mainly the last decade has expanded chemoreceptor research into a variety of different bacterial species with different lifestyles. These studies show that chemotaxis and chemoreceptor function is frequently important for virulence, plant root colonization, or biodegradation efficiency. In this context, the goal of this Special Issue is to further expand our knowledge of the chemoeffector function as well as the selective pressures that have shaped its evolution. We welcome the submission of original research and reviews.













an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us