

Special Issue

Advances in Bcl-xL Research

Message from the Guest Editor

The oncogene Bcl-xL is an anti-apoptotic member of the Bcl-2 family that was established as a major survival factor in erythroid lineage and neuronal cells. More recently, Bcl-xL also emerged as being responsible for the resistance of malignant tumor cells to anti-cancer treatments. Over the last decade, refined description of its regulation revealed that several mechanisms are at work that make Bcl-xL instrumental in the control of survival, proliferation, and differentiation. These mechanisms comprise post-translational modifications, the dynamic interactions this protein establishes with its target membranes, and also its interactions with binding partners within and outside the Bcl-2 family of proteins. This Special Issue of *IJMS* will focus on how Bcl-xL is regulated at the protein level, its organization in the membrane, the plasticity of its interactome, and how it warrants a diversity of cellular functions controlled by Bcl-xL in physiology and pathology. Articles submitted can either provide a review of specific points of the literature, or be original works offering significant advances in the structure and functions of Bcl-xL.

Guest Editor

Dr. Muriel Priault

UMR CNRS 5095, I.B.G.C., Université de Bordeaux, 1 Rue Camille Saint Saëns, 33077 Bordeaux CEDEX, France

Deadline for manuscript submissions

closed (31 October 2019)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/21698

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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.

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

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 and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)