



Advances in Bcl-xL Research

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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.





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Message from the Editor-in-Chief

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