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Current Approaches in Molecular Enzymology

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Message from the Guest Editor

As our technological repertoire advances, we are capable of digging deeper and deeper into the atomic level structures and mechanisms to dissect molecular pathogeneses. Beyond intellectual interest, the revealed pieces of information are also very relevant in the development of novel and increasingly specific clinical intervention strategies. The applied state-of-the-art biochemical, biophysical, structural, bioinformatic and molecular biology approaches resuscitated and revolutionized molecular enzymology research. All these novel tools in research, together with the completion of the Human Genome Project, also help reinvent thought to be known molecular targets. Several enzymes prove now to display moonlighting functions, whose modulation are reported to lead to auxiliary pathogeneses in disease. Targeting even a single element in a complex pathomechanism might already ameliorate clinical symptoms and improve survival rate.

The motivation behind this Special Issue is to present *via* examples various up-to-date biomolecular techniques and scientific approaches that accelerate the elucidation of intricate molecular details in the course of enzymology research today.



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Special Issue



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Message from the Editor-in-Chief

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