

Special Issue

Catalytic Receptors and Enzymes Involved in Cell-Signaling and Control

Message from the Guest Editor

Enzymes play a large variety of essential roles in an organism, facilitating the chemical reactions necessary for life's processes. In this Special Issue, we aim to attract articles from a wide scope of studies that explore, e.g., the structure, biochemical, and biological consequences of enzyme functions in health, disease, and also biotechnological applications. Because of their key biochemical roles and localized binding sites for small molecules and macromolecules, enzymes are often targets of inhibitor drugs in medicine and as tools for probing function. Moreover, regulatory enzymes are frequently subject to somatic mutations, most often innocuous, but some mutations elicit functional changes that significantly alter enzymatic activity and ligand binding, affecting health as well as clinical treatment with pharmaceuticals. We would like to address enzymes that play key roles in regulating cellular processes as part of enzyme-linked receptors, enzymes functioning in post-translational modifications, and enzymes functioning through other controlling and regulatory mechanisms acting on molecular processes and cellular signaling.

Guest Editor

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Message from the Editorial Board

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