

Special Issue

Nanozymes for Anti-cancer and Anti-bacterial Treatment

Message from the Guest Editors

Natural enzymes are biocatalysts that mediate various reactions in biological processes such as signal transduction, metabolism, and digestion. In addition to their important roles in living organisms, enzymes are applicable in the industry due to their high specificity and efficiency. Nevertheless, the widespread application of enzymes is severely hampered by several limitations, including high production cost, ease of denaturation and inactivation, and low yield. As an emerging artificial enzyme, nanozymes that combine the characteristics of nanomaterials and enzymes are promising alternatives. On the one hand, nanozymes possess high enzyme-like catalytic activities to regulate biochemical reactions. On the other hand, nanozymes also inherit the properties of nanomaterials, which can ameliorate the shortcomings of natural enzymes and serve as versatile platforms for diverse applications. The present Special Issue aims to collect recent research in the design and preparation of nanozymes and focuses on the use of nanozymes in biomedical fields, especially for anti-cancer and anti-bacterial treatment.

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