

Special Issue

Enolase: Molecular Functions and Pathological Roles in Health and Disease

Message from the Guest Editor

Enolase has emerged as a multifunctional protein with far-reaching implications in both physiology and disease. Its involvement in various physiological and pathological processes. Enolase isoforms, particularly α -, β -, and γ -enolase, are differentially expressed in tissues and have been implicated as biomarkers and potential therapeutic targets. Despite growing evidence of its multifunctionality, many aspects of enolase biology remain underexplored. This Special Issue aims to explore the functional diversity of enolase in physiological processes and its dysregulation in a wide spectrum of diseases, ranging from neurological disorders and cancer to infectious and autoimmune diseases. For this Special Issue, original research articles and reviews are welcome.

- Structural diversity and regulatory mechanisms of enolase isoforms;
- Enolase as a multifunctional protein: roles beyond glycolysis;
- Enolase in cancer metabolism and tumor progression;
- Enolase in neurodegenerative diseases;
- Enolase in inflammation and autoimmune diseases;
- Enolase as a disease biomarker: diagnostic, prognostic, and predictive value;
- Targeting enolase in therapy: from molecular insights to clinical applications.

Guest Editor

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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