

Special Issue

Matrix Metalloproteinases: Mechanisms, Functions and Therapeutic Potential

Message from the Guest Editors

Matrix metalloproteinases (MMPs) are a family of zinc-dependent endopeptidases that play pivotal roles in extracellular matrix (ECM) remodeling and degradation. They are involved in a wide range of physiological processes, including tissue repair, embryogenesis, and angiogenesis. However, dysregulation of MMP activity has been implicated in various pathological conditions, such as cancer, cardiovascular diseases, and inflammatory disorders. The multifaceted roles of MMPs in health and disease have made them a focal point of biomedical research. This Special Issue aims to explore the latest advancements in MMP research, encompassing their molecular mechanisms, regulatory pathways, and functional implications. We invite original research articles, reviews, and perspectives that provide insights into the structural biology of MMPs, their role in tissue homeostasis and disease progression, and the development of MMP inhibitors as therapeutic agents. Through this compilation, we seek to enhance our understanding of MMPs and foster the development of novel therapeutic strategies targeting these versatile enzymes.

Guest Editors

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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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