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Editorial

Biomolecular Mechanisms and Innovations: Advancing Biomolecular Sciences and Our Understanding of the Molecular Mechanisms of Biomolecules

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We are proud to present the inaugural issue of Biomolecular Mechanisms and Innovations (*BMI*), which will serve as a platform for disseminating high-quality, peer-reviewed research that explore the molecular biosciences across diverse organisms and systems. *BMI* not only aspires to be a leading portal for the dissemination of groundbreaking research, but aims to empower future scientists that will use biomolecular insights towards global challenges by fostering interdisciplinary collaboration among scientists in the biomolecular sciences.

BMI is a gold open access, peer-review journal that aims to accept high quality publications that advance our knowledge of the mechanism of action of biomolecules derived from both a natural and synthetic origin and to promote scientific understanding of the structure, function, and interactions of biological macromolecules, such as proteins, nucleic acids, lipids, and carbohydrates. The peer review process will uphold high standards of excellence and integrity and our aim is to establish a premier journal for ground breaking research in biomolecules and biomolecular science. Consequently, we will seek and will publish high impact research at the cutting-edge of science that is transformative.

The scope for *BMI* will encompass a variety of intertwined themes of study including molecular and structural biology, biochemistry and metabolism, biotechnology and bioengineering, drug discovery and pharmacology as well a cell and molecular medicine. We particularly welcome cutting-edge research that involves x-ray crystallography, cryo-electron microscopy, NMR spectroscopy, dynamic simulations and computational modeling, that advance and unravel biomolecular mechanisms, particularly in medicinal and chemical biology. We will consider both in vitro and in vivo studies. We would be particularly interested in interdisciplinary studies, integrating insights from fields such as genomics, proteomics, and metabolomics to promote a holistic view of cellular and organismal function. Insightful contributions to the field, especially those that address current challenges and innovations in the discovery and application of medicinal, natural and synthetic products are particularly welcome and encouraged. Additionally, we seek to bridge fundamental research with applied sciences, showcasing studies that inform the development of new therapeutics, diagnostics, and biotechnological tools. By promoting open scientific exchange, the journal would support the global research community in addressing critical challenges in health, agriculture, and the environment, ultimately advancing our knowledge of life's molecular foundations and enabling transformative discoveries. Our aim is that by bringing together these diverse research fields the journal can act as a conduit for significant societal benefits in medicine, biotechnology, and materials science.

The quarterly publication of *BMI* will help ensure a consistent flow of high-quality, peer-reviewed articles that will contribute to our growing body of knowledge in bimolecular science. Ultimately, we aspire that *BMI* establishes itself as an indispensable resource for all researchers that wish to advance their understanding and improvement of biomolecular molecules and mechanisms. We, therefore, warmly invite researchers and other interested parties from around the world to enthusiastically contribute and join us on this exciting journey. The success of *BMI* is ultimately dependent on the commitment and contributions from researchers interested in biomolecular sciences and together, we can advance societal benefits in medicine, biotechnology, and materials science. We therefore look forward to valuable contributions from our community that will help achieve our stated goals.

Conflicts of Interest: The author declares no conflict of interest.