

Special Issue

State-of-Art in Protein Engineering

Message from the Guest Editors

Protein engineering is a branch of molecular biology and biotechnology aimed at the modification of natural protein structures and functions to obtain new proteins with altered or novel structural properties and/or biological functions for better use in scientific research, medicine, agriculture and industry. Protein engineers use recombinant DNA technology to create genes for new proteins with desirable amino acid sequences.

Directed evolution methods select variants with desirable properties among a great variety of randomly engineered sequences, thus mimicking natural evolution processes. Both approaches are complimentary and widely use computational methods, among them being the very promising new technique of artificial intelligence. Modern protein engineering includes the modification of protein stability, ligand-binding properties, enzyme activity and specificity; *de novo* design; the improvement of the therapeutic properties of medicinal proteins, etc. Original manuscripts and reviews dealing with any aspect of protein engineering are very welcome for inclusion in the Special Issue.

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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