

## Special Issue

# Advanced Functionalization of Biopolymers and Bio-Oligomers for Precision Therapeutics

### Message from the Guest Editor

This Special Issue aims to focus on the advanced functionalization of biopolymers and bio-oligomers, a pivotal basis for precision therapeutic intervention. In pharmaceuticals, this topic covers supportive drug delivery designs that complement biotherapeutic action. Its core lies in biopharmaceuticals: through tailored functionalization, these agents (e.g., targeted antibody–drug conjugates and peptide/nucleic acid therapeutics) are engineered to precisely target disease-specific loci—such as cancer cell-specific antigens, pathogenic protein isoforms in metabolic disorders, or infected cells in infectious diseases—directly engaging with root pathogenic targets. Pharmacologically, this precision ensures that biopharmaceuticals act only on diseased sites, avoiding non-targeted tissue impact while boosting curative effects. Collectively, this Special Issue aims to integrate cutting-edge progress to advance biopharmaceuticals' role in precise disease treatment, accelerating their clinical translation.

### Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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