

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

Prof. Dr. Dayong Wang

Laboratory of Biopharmaceuticals and Molecular Pharmacology,
School of Pharmaceutical Sciences, Hainan University, Haikou, Hainan
570228, China

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Message from the Editor-in-Chief

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