

Special Issue

Protein-Polysaccharide Complexes: Structure and Physico-Chemical Properties

Message from the Guest Editor

Current trends in physicochemical biology and the search for new solutions to problems in biotechnology and medicine require more detailed information about the structure of such biopolymers as proteins and polysaccharides, as well as their complexes. In addition to their individual functions in living systems, proteins and polysaccharides are involved in the formation of supramolecular structures that carry a specific structural and functional load. Fundamental studies of intermolecular interactions of biological macromolecules and the formation of functional supramolecular complexes on their basis are an integral part of modern molecular biophysics. In terms of the variety of controlled properties, composite systems based on proteins and polysaccharides have great prospects. Due to their unique structural properties, including tunable physical, chemical, and biological characteristics, and good biocompatibility, protein-polysaccharide systems are promising materials in medicine and pharmacology.

Guest Editor

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