

Special Issue

Polymers in Biological Systems

Message from the Guest Editor

Polymers of natural origin, which are synthesized by bacteria, fungi, plants, and animals, may not necessarily be proteins and nucleic acids. The natural properties of biopolymers are closely connected with their natural functions in alive cells and tissues. Some chemically synthesized polymers show biomimetic physicochemical properties of natural polymers and therefore exhibit similar bioactivity in natural and artificial biological systems of different levels. These natural and synthetic polymers have great prospects for biomedical applications due to their unique biomedical properties: biomechanical properties, chemical reactivity, antioxidant activity, etc., which can be associated with their natural functions or biomimetic properties. This open access Special Issue will highlight the very urgent problem of the natural–biomedical properties relationship for different polymers. Therefore, the scope of the Special Issue is to summarize original research and review articles that address the progress in and current standing of the natural functions as well as biomedical properties of polymers in biological systems.

Guest Editor

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