



## Development of New Polymer Matrix Composites for Medical and Biological Applications

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Deadline for manuscript  
submissions:

**closed (25 September 2022)**

### Message from the Guest Editor

Dear Colleagues,

The production of composites with a polymer matrix opens up promising prospects for the development of new implants and endoprostheses, systems with controlled release of pharmacologically active drugs, materials for soft tissue replacement, as well as muscle imitation and determination of metabolite concentrations.

The purpose of this Special Issue is to collect results on the preparation and use of polymer composite materials in medicine and biology, as well as on the synthesis of new promising macromolecules for the pharmaceutical science.

Original and review manuscripts dedicated to the problems of the preparation and application of hydrogels, polymer materials used for production of implants and endoprostheses, macromolecular drugs carriers, as well as biodegradable materials, are welcome. The development of hemocompatible materials and amphiphilic polymers for pharmacological applications, control of the rate of biodegradation of polymers, pharmacokinetics, composites based on biopolymers, imitation of soft tissues and muscles, creation of biosensors are also the subject of this Special Issue.

Dr. Yaroslav O. Mezhuev

*Guest Editor*



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# Special Issue



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