# Special Issue

# Antimicrobial Biomaterials for Medical Applications

**Message from the Guest Editors**

This Special Issue is devoted to disseminating high-quality original research articles or comprehensive reviews. A biomaterial is a material exploited in contact with living tissues, organisms or microorganisms. Biomaterials can be derived from nature or synthesized in the laboratory using a variety of approaches utilizing metallic components, polymers, ceramics or composite materials. Biomaterials play an essential function in disease treatment and healthcare improvement. The diversity, function and wide variety of biomaterials employed worldwide have improved considerably in recent years. Biomaterials with antimicrobial properties have a significant medical interest.

We would like to invite the researchers to contribute to this Special Issue. Research topics of interest cover one or several of the topics included in the keywords below (but are not limited to the following): synthesis/biosynthesis of different biomaterials with antimicrobial properties, antibacterial applications against pathogenic bacteria, antifungal applications, antiviral applications, anti-biofilm activity, mode of action of biomaterials, antimicrobial mechanisms of biomaterials, etc.

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**Deadline for manuscript submissions**

20 August 2026

**Journal of Functional Biomaterials**

**an Open Access Journal by MDPI**

**Impact Factor 5.2**
**CiteScore 6.8**
**Indexed in PubMed**

mdpi.com/si/214708

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## About the Journal

### Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials* (*JFB*) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

### Editor-in-Chief

Prof. Dr. Pankaj Vadgama
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