## **Special Issue**

## Bacterial-Origin Polymers: The Relationship between Biomedical Properties and Natural Functions

## Message from the Guest Editor

Polymers synthesized by bacteria have great potential for biomedical application due to their unique properties. A series of biomedical properties of bacterial-origin polymers are completely determined by their natural properties, e.g., biocompatibility, biodegradability, superior biomechanical properties, specific biological activity (osteogenic, chondrogenic, fibrogenic, neurogenic, prebiotic), antimicrobial activity, ability of chemical functionalization, loading by drugs for their sustained or/and controlled delivery.

Bacteria synthesize a number of structural and storage polymers, which are components of the bacterial wall, their capsule mucosa and biofilm, as well as polymers stored in special cell granules.

The aim of this Special Issue is to highlight the urgent problem of the relationship between biomedical properties and natural functions of bacterial-origin polymers and their functional analogues to search for their new applications in medicine, pharmacology, and bioengineering.

### **Guest Editor**

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### Deadline for manuscript submissions

closed (30 April 2022)



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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

### Editor-in-Chief

### Prof. Dr. Alexander Böker

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