

Special Issue

Preparation of Bacterial Cellulose and Its Biomedical Applications

Message from the Guest Editor

Bacterial cellulose (BC) is one of the most established biopolymers in the field of biomedical materials research. As randomly assembled nonwoven from ribbon-like fibrils composed of elementary nanofibrils, it delivers a combination of exclusive properties, such as biomimetic, collagen-like structure with high flexibility and water holding capacity, crystallinity, mouldability, compounding capacity, and lignin and hemicellulose-free chemistry. To this end, we invite you to submit original research articles and review articles, covering the following topics:

- BC production and cost-effective carbon sources
- BC-based particles, membranes, and 3D matrices
- Amino acid and protein-supplemented BC membranes
- BC/polymer-based composites
- BC in regenerative medicine
- BC in organoids development
- BC toxicity and safety

Guest Editor

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Deadline for manuscript submissions

closed (10 July 2021)



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