

Special Issue

Advances in Antimicrobial Biomaterial Processes

Message from the Guest Editors

- Medicinal biomaterials with antimicrobial action;
- Biocompatibility and antimicrobial activity studies;
- Antimicrobial nanoparticles and nanomaterials;
- Nanobiotics for targeted microbial inhibition;
- Biomaterials with action against biofilms;
- Natural compounds with antimicrobial properties (e.g., chitosan, wood vinegar);
- Metal-based antibacterial agents, including metal ions, complexes, and catalytic metallodrugs;
- Antibacterial, antifungal, and antiviral biomaterials;
- Surface modifications for enhanced antimicrobial performance;
- Plasma-surface modification methods (PSMMs);
- Photoresponsive materials (photocatalysts, photosensitizers, photothermal agents);
- Biomimetic antimicrobial polymers;
- Antibacterial coatings and advanced surface designs.

We invite you to submit your original research articles, comprehensive reviews, and insightful perspectives addressing the latest advancements in antimicrobial biomaterials and their applications.

Guest Editors

Prof. Dr. Francisco Marlon Carneiro Feijó

Dr. Carlos Eduardo Moura

Dr. Caio Sérgio Santos

Deadline for manuscript submissions

15 September 2025



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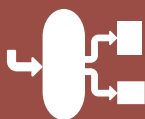


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You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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