Special Issue

Microbial Biotechnologies for Steroid Production

Message from the Guest Editor

This Special Issue of Microorganisms aims to collect articles and reviews on new methodologies, research, and achievements in the field of steroid microbial biotechnologies. Manuscripts relating to the discovery and engineering of microorganisms capable of producing value-added products from phytosterol and other renewable raw materials, whole-cell, and enzyme biocatalysts performing different reactions of steroid modifications with special attention to the oxyfunctionalization of inactive carbons in steroid molecules and rare steroid production are welcome. The generation of microbial strains with improved biocatalytic features using genetic and metabolic engineering, as well as synthetic biology approaches, cascade bioconversions, and new steroid bioproduction schemes, and new insights on steroid bioproduction (upstream and downstream processing) and the development of new approaches for steroid bioconversion enhancement are also welcome. Research on method development for environmental protection from endocrine disruptors is of special interest, and other fields related to steroid biotechnology may also be considered.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/91219

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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