Special Issue

Microalgae Biotechnology: Methods and Applications

Message from the Guest Editor

Microalgae are a group of unicellular photosynthetic microorganisms, which can utilize atmospheric CO2 as a carbon source. They are regarded as sustainable feedstocks for the production of valuable bioactive molecules, biochemicals and biofuels. However, the industrial production of these products from microalgae is not economically viable due to biological and biotechnological limitations, and microalgae-based strategies to remediate waste resources and pollutants also have a low economic efficiency. Therefore, the development of microalgal biotechnology is urgently required to meet the increasing demand for microalgalbased commercial applications. This Special Issue aims to collate recent achievements in genetic tools, which are useful for modifying microalgal species, as well as recent achievements in efficient and cost-effective microalgae production. We also welcome papers that focus on bioengineering and biotechnological strategies to enhance the production of biofuels and other valueadded products in microalgae through CO2 fixation and/or the use of carbon from waste resources and pollutants.

Guest Editor

Dr. Fantao Kong

MOE Key Laboratory of Bio-Intelligent Manufacturing, School of Bioengineering, Dalian University of Technology, Dalian 116024, China

Deadline for manuscript submissions

closed (15 October 2023)



Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.8
CiteScore 4.0
Indexed in PubMed



mdpi.com/si/126664

Bioengineering MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 bioengineering@mdpi.com

mdpi.com/journal/ bioengineering





Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.8 CiteScore 4.0 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2024).

