

Special Issue

Synthetic Biology and Metabolic Engineering of Yeast

Message from the Guest Editor

- Yeast serves as an ideal platform for research in synthetic biology and metabolic engineering. This Special Issue invites contributions on all the latest research and innovative strategies to advance yeast synthetic biology and metabolic engineering.
- Topics of interest include, but are not limited to, the following:
 - Design and optimization of yeast cell factories for bioproduction.
 - Synthetic gene circuits and regulatory networks for metabolic control.
 - High-throughput screening and omics-guided strain engineering.
 - Computational modeling and machine learning for yeast systems biology.
 - Engineering yeast consortia for complex biosynthetic tasks.
 - Novel synthetic biology tools and genome editing technologies.
- We invite submissions of original research and review articles that leverage synthetic biology and metabolic engineering approaches to design, optimize, and reprogram yeast metabolism for biotechnological applications.

Guest Editor

Prof. Dr. Mingfeng Cao

Department of Chemical and Biochemical Engineering, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China

Deadline for manuscript submissions

30 April 2026



Journal of Fungi

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.4
Indexed in PubMed



mdpi.com/si/236600

Journal of Fungi
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jof@mdpi.com

mdpi.com/journal/

[jof](https://mdpi.com/journal/)





Journal of Fungi

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.4
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/jof)

[jof](https://mdpi.com/journal/jof)



About the Journal

Message from the Editor-in-Chief

The *Journal of Fungi* (JoF, ISSN 2309-608X) is an international, peer-reviewed, scientific, open access journal that provides an advanced forum for studies related to pathogenic fungi, fungal biology, and all other aspects of fungal research. Research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. David S. Perlin
Hackensack Meridian Health Center for Discovery and Innovation, 340
Kingsland Street, Nutley, NJ 07110, USA

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q1 (Mycology) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)