

## Special Issue

# Basic Research and Application of Filamentous Fungi in Biotechnology

### Message from the Guest Editor

Filamentous fungi represent a versatile and under-exploited biological resource in modern biotechnology, owing to their diverse morphologies, robust enzyme systems, and capacity for bioconversion of complex substrates. This Special Issue aims to bring together cutting-edge research on the physiology, genetics, and bioprocess engineering of filamentous fungal species, with a focus on their applications in biotransformation, enzyme production, and conversion of biomass or waste streams. Topics of interest include the discovery and optimisation of fungal enzyme systems, metabolic engineering and strain improvement, scale-up of filamentous-fungus-based fermentations, valorisation of agro-industrial residues, biotransformation of recalcitrant compounds, and integration of omics and synthetic biology approaches.

By emphasising both fundamental mechanisms and translational applications. We welcome the contributions of original research, reviews, and short communications that advance the knowledge and practice of filamentous fungal biotechnology.

### Guest Editor

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## Journal of Fungi

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## 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.

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### Editor-in-Chief

Prof. Dr. David S. Perlin  
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