



Fungal Cell Wall

Guest Editor:

Dr. Anne Beauvais

Unité des Aspergillus, Institut
Pasteur, Paris, France

Deadline for manuscript
submissions:

closed (31 October 2017)

Message from the Guest Editor

Dear Colleagues,

The fungal cell is surrounded by a wall, which acts as a sieve, as well as a reservoir, for effector molecules that play an active role during infection. Considered a living organelle, the cell wall is essential for growth and crucial for resisting host defense mechanisms. Polysaccharides constitute >70% of the cell wall, and their biosynthesis is under the control of three types of enzymes: Transmembrane synthases, cell wall associated transglycosidases, and glycosylhydrolases; these are responsible for the remodeling of the de novo synthesized polysaccharides resulting in the characteristic three-dimensional structure of the cell wall. While certain polysaccharides are species- or genus- specific, some of them, such as β -(1,3)-glucan and chitin, are common to all fungal species, but both display fungus- and morphotype-specific differences in their concentration and localization.

Dr. Anne Beauvais

Guest Editor

- Glucan
- chitin
- mannan galactan
- polysaccharide
- melanin
- cell wall





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. David S. Perlin

Hackensack Meridian Health
Center for Discovery and
Innovation, 111 Ideation Way,
Nutley, NJ 07110, USA

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.

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, CAPus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Mycology*) / CiteScore - Q1 (*Ecology, Evolution, Behavior and Systematics*)

Contact Us

Journal of Fungi Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jof
jof@mdpi.com
[X@JoF_MDPI](https://twitter.com/JoF_MDPI)