

Special Issue

Fungal Cell Wall

Message from the Guest Editor

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.

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

Guest Editor

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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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