



## Around the New Paradigm of Yeast: Multicellularity

Guest Editor:

### Assoc. Prof. Cândida Lucas

1. Centre of Molecular and Environmental Biology (CBMA), University of Minho, 4710-054 Braga, Portugal

2. Institute of Science and Innovation on Bio-sustainability (IB-S), University of Minho, 4710-054 Braga, Portugal

Deadline for manuscript submissions:

**closed (31 December 2020)**

### Message from the Guest Editor

Yeasts have mechanisms to deal with multicellularity that have only very recently been acknowledged. They communicate with each other and promote proliferation or death in a spatially controlled manner.

A call for papers should contain the following potential topics and include works done in several model yeasts, including *S. cerevisiae*, *C. albicans*, *C. neoformans*, and *A. gossypii*.

- Yeast cell surface biology/glycobiology;
- Yeast extracellular matrix chemical and structural characterization;
- Secretion mechanisms of wall, matrix, or capsule components;
- Cell-cell recognition, communication, and adhesion;
- Molecular biology of yeasts adhesion versus invasion;
- Molecular biology of yeasts growth polarity/differentiation;
- Cellular differentiation in response to multicellular constraints;
- Molecular drivers of yeast multicellularity;
- Biology of yeast multicellular aggregates (population biology, quorum sensing, etc.);
- New techniques and methodologies to study yeast multi/extracellular biology.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## 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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI