## **Special Issue**

## Bioactive Compounds by Higher and Lower Fungi

## Message from the Guest Editor

Higher and lower fungi during liquid- or solid-state fermentations are able to produce a plethora of substances that constitute natural compounds, which are beneficial for human health. Particularly, edible and medicinal mushrooms are able to grow in various lignocellulosic substrates for the production of carposomes that serve as high nutritional and functional food, as well as in synthetic culture media for the production of biomass in mycelial form and many bioactive metabolites. Both carposomes and mycelial mass can be a rich source of bioactive compounds with medicinal properties. Yeasts can produce compounds like polyols, storage lipids presenting composition similarities with high value exotic fats, proteins, and other added-value compounds which are important for the food and pharmaceutical industries. Finally, lower fungi produce bioactive high-added-value lipophilic compounds such as functional poly-unsaturated fatty acids (PUFAs).

- fungi
- mushrooms
- polysaccharides
- ⊠-glucan
- fatty acids
- cellular lipids
- antioxidants
- phenolics
- terpenoids

#### **Guest Editor**

Dr. Panagiota Diamantopoulou

Laboratory of Edible Fungi, Institute of Technology of Agricultural Products (itap), Hellenic Agricultural Organization—DEMETER, Sof. Venizelou 1, 14123 Lycovryssi, Greece

## Deadline for manuscript submissions

closed (10 July 2022)



# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## mdpi.com/si/53058

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 applsci@mdpi.com

mdpi.com/journal/applsci





# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## **About the Journal**

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## **Editor-in-Chief**

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## **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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

