

## RESEARCH TOPIC OF FOREST SYSTEMS

**Title:** FORESTS: RESERVOIRS OF GLOBAL MYCOCULTURAL HERITAGE AND MYCOLOGICAL RESOURCES

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### About this Research Topic

Currently, one of the main challenges faced by human beings around the world is the simultaneous conservation of natural ecosystems and the production of either food or economic resources for people's survival. Forests constitute a biocultural and genetic reservoir of paramount importance for wild mushrooms worldwide. Mushrooms are some of the most important non-timber forest resources on the planet. Their ecological relevance and sustainable use has enormous potential for both the preservation of forest masses and food production for vulnerable communities. Mushrooms have been used during millennia as food, medicine, and many species also have broad biotechnological applications. The relationship between humans and the use of mushrooms growing in the forests is as ancient as our species. Millions of human beings around the planet have generated ancestral knowledge related to their mycological resources, and they currently survive by collecting edible and medicinal species during the rainy season. Hundreds of bioactive compounds with medicinal uses have recently been isolated from mushrooms, therefore being considered functional foods. Additionally, the annual global trade of edible wild mushrooms collected from the forests is worth billions of dollars due to dramatic cultural changes by the world's population searching for healthier food, so mushroom cultivation also constitutes a research frontier area of great relevance.

**Research topics:** Ethnomycology, Mycosylviculture, Biocultural heritage, Edible wild fungi, Technology transfer of mushroom cultivation, Use of modern technologies (e.g., GIS) for sustainable fungal harvest, traditional knowledge of mushrooms, Socioeconomic relevance, Cultivation of edible ectomycorrhizal mushrooms, mycotourism.

### SUBMISSION DEADLINES

**Abstract** August 31, 2021

This should include: i) *Proposed title of the work*. The title must be clear, short and concise. It should preferably not exceed 20 words; ii) Authors' names and affiliations. It should include name and full postal address of the institution(s); and iv) Corresponding author's e-mail address and telephone number. Abstract should be 250 words maximum, written in compact paragraphs with essential ideas of the work, including aim of study, area of study, material and methods, main results highlighting the most relevant findings and their implications. In the case of review articles, the format structure is free. A maximum of seven key words should be included at the end of the abstract. These should not repeat words that appear in the title. This abstract should be submitted to the mail [sustfungi.special.issue@gmail.com](mailto:sustfungi.special.issue@gmail.com) maximum by august 31, 2021.

**Manuscript**

October 1st to 31, 2021

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In the Cover Letter it should be indicated that the contribution should be considered for publication in the special Research Topic: FORESTS: RESERVOIRS OF GLOBAL MYCOCULTURAL HERITAGE AND MYCOLOGICAL RESOURCES