



Genetics and Breeding of Edible Mushroom

Guest Editor:

Dr. Xiangli Wu

Institute of Agricultural
Resources and Regional
Planning, Chinese Academy of
Agricultural Sciences, Beijing
100081, China

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Message from the Guest Editor

Edible mushrooms, well known for their high nutritional and medicinal value, have been widely cultivated across the globe. Studies involving germplasm resources, molecular markers, genetics, breeding systems, and cultivation techniques have been extensively performed over the last few decades and have greatly promoted the mushroom industry. However, both mushroom development and the formation of nutritional and medicinal characteristics are complicated systems involving gene regulatory networks and environmental stimulations. With breakthroughs regarding high-throughput sequencing and omics, genetic transformation, gene editing technologies, etc., more and more researchers have focused on the molecular genetic mechanisms of mushroom yield and quality and have made some progress.

This Special Issue focuses on the field of both basic research and technological applications in mushroom genetics and breeding. Authors are welcome to submit articles in the areas of omics analysis, gene identification, genetic engineering, marker-assisted breeding, environmental response, formation mechanisms of nutritional and medicinal value, and other related areas.





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Sydney Institute of Agriculture,
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Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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