



INSTITUTE OF AGRICULTURAL RESOURCES
AND REGIONAL PLANNING , CAAS

Zhang Ruiying



Professor



Ph.D Supervisor



86-10-82106207



zhangruiying@caas.cn



Innovation Team of Mushroom Genetics, Breeding and Cultivation, IARRP, CAAS



Tufei Building, 12 Zhongguancun Nandajie Street, Haidian District, Beijing, China

Research Interests

- The molecular mechanism of the glyoxylate cycle in edible mushrooms
- Factors affecting the spawn quality of edible mushroom
- How do the edible mushrooms respond to environment

Publication

Effects of pH and Buffering on the Growth of *Lentinula edodes* Mycelium (CN), *Scientia Agricultura Sinica*, 2020, DOI:10.3864/j.issn.0578-1752.2020.22.014

Cloning and Expression Analysis of Oxaloacetate Hydrolase(LeOAH1) Gene from *Lentinula edodes* (CN), *Biotechnology Bulletin*, 2020, DOI:10.13560/j.cnki.biotech.bull.1985.2019-1246

Anoxia and anaerobic respiration are involved in “ spawn-burning ” syndrome for edible mushroom *Pleurotus eryngii* grown at high temperatures, *Scientia Horticulturae*, 2016, DOI:10.1016/j.scienta.2015.12.035

Anoxia and anaerobic respiration are involved in “ spawn-burning ” syndrome for edible mushroom *Pleurotus eryngii* grown at high temperatures, *European Journal of Plant Pathology*, 2015, DOI:10.1007/s10658-015-0734-4



Adopting stick spawn reduced the spawn running time and improved mushroom yield and biological efficiency of *Pleurotus eryngii*, *Scientia Horticulturae*, 2014, DOI: 10.1016/j.scienta.2014.05.028

Evaluation of oyster mushroom strains for resistance to *Pseudomonas tolaasii* by inoculation in spawned substrates, *European Journal of Plant Pathology*, 2013, DOI:10.1007/s10658-013-0223-6

Development of SSR markers for typing cultivars in the mushroom *Auricularia auricula-judae*, *Mycological Progress*, 2012, DOI:10.1007/s11557-011-0798-2

A Novel Aspartic Protease with HIV-1 Reverse Transcriptase Inhibitory Activity from Fresh Fruiting Bodies of the Wild Mushroom *Xylaria hypoxylon*, *Journal of Biomedicine and Biotechnology*, 2012, DOI: 10.1155/2012/728975

Identification and Characterization of an *Erwinia* Causing Bacterial Soft-rot Disease on *Pleurotus eryngii* Cultivated in China(CN), *International Journal of Peptide Research and Therapeutics Acta Edulis Fungi*, 2013, DOI:1005—9873(2013)03—0043—07

Preliminary Study on the Wet Blotch Disease of *Pleurotus nebrodensis*(CN), *Acta Edulis Fungi*, 2012, DOI: 1005-9873(2012)02-0106-05