

- Chapter 1. Biotechnology of Mushroom Growth Through Submerged Cultivation
Marian Petre & Violeta Petre
- Chapter 2. Biotechnological Recycling of Fruit Tree Wastes by Solid-State Cultivation of Mushrooms
Violeta Petre, Marian Petre, Ionela Rusea & Florin Stănică
- Chapter 3. Controlled Cultivation of Mushrooms on Winery and Vineyard Wastes
Marian Petre, Florin Pătrulescu & Răzvan Ionuț Teodurescu
- Chapter 4. Virtual Robotic Prototype for Safe and Efficient Cultivation of Mushrooms
Florin Adrian Nicolescu, Dan Andrei Marinescu, Georgia Cezara Avram
- Chapter 5. Growing *Agaricus bisporus* as a Contribution to Sustainable Agricultural Development
Jean-Michel Savoie & Gerardo Mata
- Chapter 6. New Prospects in Pathogen Control of Button Mushroom Cultures
Jean-Michel Savoie, Gerardo Mata & Michèle Largeteau
- Chapter 7. Sclerotium-Forming Mushrooms as an Emerging Source of Medicinals: Current Perspectives
Beng Fye Lau & Noorlidah Abdullah
- Chapter 8. Medicinal Mushrooms with Anti-Phytopathogenic and Insecticidal Properties
Gayane S. Barseghyan, Avner Barazani & Solomon P. Wasser
- Chapter 9. Cultivation of Medicinal Fungi in Bioreactors
Marin Berovic & Bojana Boh Podgornik
- Chapter 10. Use of *Aspergillus niger* Extracts Obtained by Solid-State Fermentation
Nolia Pérez-Rodríguez, Ana Torrado-Agrasar & José M. Domínguez
- Chapter 11. Identification and Application of *Volvariella volvacea* Mating Type Genes to Mushroom Breeding
Dapeng Bao & Hong Wang
- Chapter 12. Biotechnological Use of Fungi for the Degradation of Recalcitrant Agro-pesticides
Reyna L. Camacho-Morales & José E. Sánchez