

**ABSTRACT
BOOK**



SCIENTIFIC SUMMITS

WSCSE-2025

Paris, France | March 27-29, 2025

**WORLD SUMMIT ON
CROP SCIENCE AND ENGINEERING**

FOREWORD

Dear Colleagues

Immerse yourself in the essence of **WSCSE-2025**, the World Summit on Crop Science and Engineering, slated to convene in Paris, France from March 27-29, 2025.

At **WSCSE-2025**, a diverse array of leading experts, researchers, professionals, scientists, scholars, delegates, businessmen, students, and industrialists will come together. With a legacy of innovation, our conference serves as a crucial platform for advancing knowledge, fostering innovation, and addressing contemporary challenges in Crop Science and Engineering.

Our mission is to provide an immersive forum for discussions, technical sessions, and networking opportunities that inspire and empower those passionate about Crop Science and Engineering. Attendees can anticipate dynamic exchanges of ideas, experiences, and expertise through keynote addresses, technical sessions, panel discussions, and networking events.

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OPTIMUM SUBSTRATE ACIDITY FOR MAXIMUM MYCELI- AL MASS PRODUCTION SHIITAKE - LENTINULA EDODES (BERK.) PEGLER (1976)

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ABSTRACT

One of the main factors relevant for the occurrence of the infection is the pH substrate. The impact of this factor on the growth and production of mycelial mass was examined under laboratory conditions. The aim of the research was to determine the optimal conditions for the development of the fungus *L. edodes*. The results showed optimal acidity of the substrate that stimulates the growth of this fungus, compared to the conditions under which the rival microorganisms develop. The highest weight of mycelial dry mass was formed at the substrate pH values between 3.00 and 3.63, which means that this fungus can easily perform spontaneous infection. The changes in pH of the substrate where the examined strains of the fungus *L. edodes* grew shifted toward acidic reaction (5.15 to 3.52), which suggests that such acidity favours the development of the fungus investigated. The fungus cannot thrive in an alkaline environment at pH 7.3, which halts its development.

Key words: *Shiitake; substrate acidity; mycelial mass production*

BIOGRAPHY

Miroslava Markovic was born in Belgrade, Serbia on February 13, 1962. Since 1987, she was employed at the Institute of Forestry, Forest Protection Department. On December 09th, she defended her doctoral dissertation entitled Monitoring of Powdery Mildew *Microsphaera alphitoides* Griff. et Maubl. (1910) in Serbia and its Suppression by means of Alternative Protection Measures in the field of Biotechnical Sciences. On May 25th, 2011 she was selected as Research Associate for Ministry of Education and Science and On April 24th, 2023 she has been promoted to Senior Research Associate for Ministry of Science, Technological Development and Innovation.

Miroslava's key areas of work are Phytopathology, Ecology, Integral Forest Protection, the influence of cross-border air pollution on the drying of forests in Serbia - ICP Forests, Report-diagnostic work in the field of plant protection - forest protection in the area of the headquarters of Serbia. She has more than 200 published papers (all categories and ratings).

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BIOGRAPHY

Dr. Kalliopi Kadoglidou is an independent researcher in Horticulture at the Institute of Plant Breeding and Genetic Resources of ELGO-DIMITRA in Thessaloniki Greece. She possesses experience and knowledge, encompassing aspects from a wide range of areas due to the subject of her studies and her participation in several research programs. Her research interests focus on vegetables cultivation, including the plant physiology under biotic/abiotic stress, the exploitation of biological action of plant's secondary metabolites in sustainable production, the recycling of crop residues in sustainable and organic cultivation systems, the sustainable greenhouse production, the agro-ecophysiology. She has published 25 papers within the Science Citation Index with h-index-15, two book chapters and 23 publications in international and national conferences. During the period 2005-2019 she was also lecturing of theory and laboratory courses in Faculties of Agriculture in Higher Education Institutions in Greece.



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