



AgroSym
2021



**BOOK OF
ABSTRACTS**

*XII International Scientific
Agriculture Symposium
"AGROSYM 2021"
October 7-10, 2021*



AGRO 2021
sym

Editor in Chief

Dusan Kovacevic

Technical editors

Sinisa Berjan
Milan Jugovic
Noureddin Driouech
Rosanna Quagliariello

Website:

<http://agrosym.ues.rs.ba>

CIP - Каталогизација у публикацији

Народна и универзитетска библиотека
Републике Српске, Бања Лука

631(048.3)(0.034.4)

INTERNATIONAL Scientific Agricultural Symposium "Agrosym 2021" (12 ;
Jahorina)

Book of Abstracts [Електронски извор] / XII International Scientific
Agriculture Symposium "Agrosym 2021", Jahorina, October 07 - 10, 2021 ;
[editor in chief Dušan Kovačević]. - East Sarajevo = Istočno Sarajevo :
Faculty of Agriculture = Poljoprivredni fakultet, 2021. - 1 електронски
оптички диск (CD-ROM) : текст, слика ; 12 cm

Системски захтеви: Нису наведени. - Насл. са насл. екрана. - Регистар.

ISBN 978-99976-787-8-2

COBISS.RS-ID 134426625

Milan UGRINOVIĆ, Zdenka GIREK, Suzana PAVLOVIĆ, Slađan ADŽIĆ, Jelena DAMNJANOVIĆ, Marija GAVRILOVIĆ, Vladan UGRENOVIĆ	451
DRY BEAN PRODUCTION IN THE FIRST DECADES OF THE 21ST CENTURY: REPUBLIC OF SERBIA	
Milan UGRINOVIĆ, Zdenka GIREK, Suzana PAVLOVIĆ, Slađan ADŽIĆ, Dejan CVIKIĆ, Đorđe MORAVČEVIĆ, Almir MUHOVIĆ	452
THE IMPORTANCE OF APPLYING ORGANIC PREPARATIONS IN THE PEPPER PRODUCTION	
Marina STANIĆ, Nenad PAVLOVIĆ, Jelena MLADENOVIĆ, Anđelka POPADIĆ, Milena ĐURIĆ	453
THE INFLUENCE OF SOME BIO-PRODUCTS ON GERMINATION AND PROTECTION OF <i>CHAMOMILLA RECUTITA</i> (L.) RAUCH SEEDS	
Vladimir FILIPOVIC, Sara MIKIC, Vladan UGRENOVIC, Tatjana MARKOVIC, Zeljana PRIJIC, Snezana MRĐAN, Stefan GORDANIC.....	454
IS THERE ANY EFFECTS OF ORGANIC FOOD ON HUMAN HEALTH?	
Snežana OLJAČA, Željko DOLIJANOVIĆ, Dušan KOVAČEVIĆ, Jasmina OLJAČA, Nemanja GRŠIĆ.....	455
VARIABILITY OF PLANT HEIGHT AND SPIKE CHARACTERISTICS OF DURUM WHEAT GROWING IN ORGANIC PRODUCTIONS	
Veselinka ZEČEVIĆ, Slobodan MILENKOVIĆ, Danica MIĆANOVIĆ, Kristina LUKOVIĆ, Mirela MATKOVIĆ STOJŠIN, Radiša ĐORĐEVIĆ, Desimir KNEŽEVIĆ	456
EFFECT OF CROPPING SYSTEMS AND PLANT NUTRITION ON PRODUCTIVITY AND RHEOLOGICAL QUALITY OF WINTER WHEAT	
Magdaléna LACKO-BARTOŠOVÁ, Lucia LACKO-BARTOŠOVÁ, Matej HUDEC, Joanna KORCZYK-SZABÓ	457
PRODUCTION PARAMETERS AND ECONOMIC PERFORMANCE OF WINTER WHEAT GROWN IN ORGANIC SYSTEM	
Magdaléna LACKO-BARTOŠOVÁ, Lucia LACKO-BARTOŠOVÁ, Matej HUDEC	458
ALTERNATIVE FOR POLYPROPYLENE BAGS IN OYSTER MUSHROOM (<i>PLEUROTUS OSTREATUS</i>) CULTIVATION IN SRI LANKA.	
I.J.A. RUHUNUGE, J. P. KIRTHISINGHE.....	459
USE OF ANIMAL DUNG FOR CULTIVATION OF OYSTER MUSHROOM (<i>Pleurotus ostreatus</i>) IN SRI LANKA	
I.J.A RUHUNUGE, JP KIRTHISINGHE.....	460
ORGANIC FARMING AND POLICIES APPLIED IN TURKEY	
Aybüke KAYA	461

IS THERE ANY EFFECTS OF ORGANIC FOOD ON HUMAN HEALTH?

Snežana OLJAČA*, Željko DOLIJANOVIĆ, Dušan KOVAČEVIĆ, Jasmina OLJAČA, Nemanja GRŠIĆ

Faculty of Agriculture, University of Belgrade, Serbia

*Corresponding author: soljaca@agrif.bg.ac.rs

Abstract

In the last decade, the production and consumption of organic food have increased steadily worldwide. While there is increasing scientific evidence for biodiversity and environmental sustainability-related benefits of organic farming, there is still considerable scientific controversy about whether or not, and to what extent organic production methods result in food quality and safety, and human health gains. This review provides an update of the present knowledge of the impact of an organic versus a conventional food diet on health. Considering the nutritional value of organic products, the content of dry matter, minerals, vitamins and substances that give a better smell and taste of food, advantage is on the organic food side. In terms of the content of secondary metabolites of plants, products from organic production show significant advantages over products from conventional production. The content of polyphenols, carotenoids and vitamin C is 10-50% higher in products from organic production. The risk of food contamination by residues of pesticides and antibiotics is lower in organic than in conventional foods. Also, there is no evidence that there is a higher risk of microbiological and other natural toxins found in organically produced foods. Analyses of products from animal production, including milk, dairy products and meat, showed that products from organic production had significantly better characteristics compared to products from conventional production. This refers to the total content of useful fatty acids, especially the content of conjugated linoleic acid (CLA), the content of which can be higher up to 60% in milk from organic production, then a better ratio of omega-3 and omega-6 fatty acids, higher antioxidant content and lower concentrations of drug and hormone residues in organic products.

Keywords: *Organic food, Human health, Nutritional value, food quality and safety*