

**Faculty of Agriculture  
Goce Delcev University - Stip**



**2<sup>nd</sup> INTERNATIONAL MEETING  
AGRISCIENCE & PRACTICE  
(ASP 2019)**

**BOOK OF ABSTRACTS**

**12<sup>th</sup> April 2019  
Stip, Republic of North Macedonia**

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**Publisher:**  
**Faculty of Agriculture, Goce Delcev University**

The abstracts are technically edited according to the Template for Abstracts, without additional editing of the main text. The results and writing style are presented in the original form provided by the authors.

CIP - Каталогизација во публикација  
Национална и универзитетска библиотека "Св. Климент Охридски", Скопје

631/635(062)(084.3)

INTERNATIONAL meeting agriscience & practice (ASP 2019) (2 ; 2019 ;  
Stip)

Book of abstracts / 2nd international meeting agriscience & practice (ASP 2019), 12th  
April 2019 Stip, Republic of North Macedonia.

- Stip : Goce Delcev University, Faculty of agriculture, 2019. - [62] стр. ; 25 см

ISBN 978-608-244-619-6

а) Земјоделство - Собири - Апстракти  
COBISS.MK-ID 110141706

**2<sup>nd</sup> INTERNATIONAL MEETING AGRISCIENCE & PRACTICE  
ASP 2019**

**Organized by**

**FACULTY OF AGRICULTURE  
GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF NORTH MACEDONIA  
12 April 2019, Stip, Republic of North Macedonia**

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**THE INFLUENCE OF ORGANIC FERTILIZERS ON THE GROWTH AND YIELD OF BROCCOLI (*Brassica oleracea* L. var. *italica*)** Daniela Dimovska<sup>1\*</sup>, Ljupco Mihajlov<sup>1</sup>, Fidanka Trajkova<sup>1</sup>, Liljana Koleva Gudeva<sup>1</sup>, Igor Iljovski<sup>2</sup>

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**Abstract**

The experiment was conducted in order to determine the influence of organic fertilizers on the growth dynamics and yield of broccoli grown in the open field. It used the variety Verdija F1 which was grown in Skopje region during one year (2018). The treatments were as follows: Ø control-without use of organic fertilizer, V-1 -foliar treatment with Biohumus, V-2 -foliar treatment with Orgalife, V-3 - foliar treatment with Bio - Vital, They were treated every 10 days, starting on 19.08, three times during vegetation. The following traits were to examine dynamics of growth and yield. According to the results obtained it can be established that by the use of organic fertilizer Orgalife the considerable higher yield on the central flower gave the treatment V-2 (6.98 t/ha) in comparison to control treatment (5.41 t/ha). Statistically significant differences, at the level of 0.05 with the LSD test, were obtained between V-2 and control. The results obtained for the average height of the plants during the three treatments showed that there are highly statistically significant differences at the level of 0.01 between V-2 (55.6 cm) and control. According to the results obtained, it can be concluded that the V-2 has given the best results in both the increment of the plant and the yield obtained.

**Key words:** broccoli, organic fertilizer, yield, growth dynamics