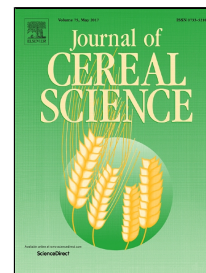


# Accepted Manuscript

Fatty acids of maize pollen – quantification, nutritional and morphological evaluation



Aleksandar Ž. Kostić, Bojana D. Špirović Trifunović, Mirjana B. Pešić, Ivana Ž. Vukašinić, Vladimir B. Pavlović, Marina P. Mačukanović-Jocić

PII: S0733-5210(17)30362-4  
DOI: 10.1016/j.jcs.2017.08.004  
Reference: YJCRS 2417  
To appear in: *Journal of Cereal Science*  
Received Date: 05 May 2017  
Revised Date: 19 July 2017  
Accepted Date: 01 August 2017

Please cite this article as: Aleksandar Ž. Kostić, Bojana D. Špirović Trifunović, Mirjana B. Pešić, Ivana Ž. Vukašinić, Vladimir B. Pavlović, Marina P. Mačukanović-Jocić, Fatty acids of maize pollen – quantification, nutritional and morphological evaluation, *Journal of Cereal Science* (2017), doi: 10.1016/j.jcs.2017.08.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# 1 Fatty acids of maize pollen – quantification, nutritional and morphological evaluation

2 Aleksandar Ž. Kostić<sup>a,\*</sup>, Bojana D. Špirović Trifunović<sup>b</sup>, Mirjana B. Pešić<sup>a</sup>, Ivana Ž.

3 Vukašinić<sup>c</sup>, Vladimir B. Pavlović<sup>c</sup>, Marina P. Mačukanović-Jocić<sup>d</sup>

4 <sup>a</sup>*Faculty of Agriculture, Chair of Chemistry and Biochemistry, University of Belgrade, Nemanjina 6, 11080*

5 *Belgrade, Serbia*

6 <sup>b</sup>*Faculty of Agriculture, Chair of Pesticids, University of Belgrade, Nemanjina 6, 11080 Belgrade, Serbia*

7 <sup>c</sup>*Faculty of Agriculture, Chair of Mathematics and Physics, University of Belgrade, Nemanjina 6, 11080*

8 *Belgrade, Serbia*

9 <sup>d</sup>*Faculty of Agriculture, Chair of Agrobotany, University of Belgrade, Nemanjina 6, 11080 Belgrade, Serbia*

10 \* Corresponding author: [akostic@agrif.bg.ac.rs](mailto:akostic@agrif.bg.ac.rs) (A.Ž. Kostić), Nemanjina 6, 11080, Belgrade, Serbia,

11 phone/fax: +381112199711

12 e-mail addresses: [spirovic@agrif.bg.ac.rs](mailto:spirovic@agrif.bg.ac.rs) (B.D. Špirović-Trifunović); [mpesic@agrif.bg.ac.rs](mailto:mpesic@agrif.bg.ac.rs) (M.B. Pešić);

13 [ivanavu@agrif.bg.ac.rs](mailto:ivanavu@agrif.bg.ac.rs) (I.Ž. Vukašinić); [vlaver@agrif.bg.ac.rs](mailto:vlaver@agrif.bg.ac.rs) (V.B. Pavlović); [marmajo@agrif.bg.ac.rs](mailto:marmajo@agrif.bg.ac.rs)

14 (M.P. Mačukanović-Jocić).

## 15 Abstract

16 The aim of this work was to identify and quantify fatty acids presented in pollen samples  
17 collected from six different Serbian maize hybrids by GC capillary method. Due to great  
18 importance of fatty acids as food component potential nutritional value of maize pollen as  
19 food supplement in human diet was determined. It has been shown that pollen is a great source  
20 of different fatty acids, especially unsaturated fatty acids. In total, twenty eight fatty acids  
21 were quantify - the most abundant saturated FAs were palmitic and hencosanoic acid; the  
22 most prevalent monounsaturated FAs were oleic, elaidic and *cis*-10-heptadecenoic acid.  
23 Linoleic and *cis*-11,14-eicosadienoic acid were the most abundant polyunsaturated fatty acid.

Download English Version:

<https://daneshyari.com/en/article/5762418>

Download Persian Version:

<https://daneshyari.com/article/5762418>

[Daneshyari.com](https://daneshyari.com)