

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



**3rd INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE
(ASP 2023)**

BOOK OF ABSTRACTS

19-20th April 2023

Stip, Republic of North Macedonia

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Publisher:
Faculty of Agriculture, Goce Delcev University - Stip

Editor
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English language editor
Biljana Petkovska Ivanova (MA, Senior lecturer)

The abstracts are technically edited according to the 'Template for Abstracts', without additional editing of the abstract 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 2023) (3 ; 2023 ; Stip)

Book of abstracts / 3rd international meeting agriscience & practice (ASP 2023), 19-20th April 2023 Stip, Republic of North Macedonia. - Текст во пдф формат, содржи 63 стр. - Stip : Goce Delcev University, Faculty of agriculture, 2023

Начин на пристапување (URL):

<https://zf.ugd.edu.mk/index.php/mk/agronauka-i-praksa>. - Наслов преземен од екран. - Опис на изворот на ден 09.05.2023 година

ISBN 978-608-244-969-2

а) Земјоделство -- Собири -- Апстракти

COBISS.MK-ID 60284421

BOOK OF ABSTRACTS
SECTION: PLANT BIOTECHNOLOGY

MOLECULAR EVALUATION OF FOUR PEPPER ANDROGENIC REGENERANTS Marija Pockovska¹, Svetalana Glogovac², Ankica Kondić Špika², Fidanka Trajkova^{1*}, Liljana Koleva Gudeva¹

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Abstract

The anthers from six pepper genotypes, two hybrids Edita F1, Homera F1, and 4 cultivars: Duga bela, Una, Amfora and Kurtovska kapija were used in two-year androgenesis experiment. The anthers were isolated and cultivated on suitable nutrient media, following appropriate protocols. All tested pepper genotypes responded differently in terms of callus and androgenic embryos formation. Four androgenic regenerants (Edita_R1, Edita_R2, Edita_R3 and Edita_R4) from the genotype Edita F1 were used for molecular evaluation and compared with the donor genotype. The DNA was extracted according to the CTAB protocol, modified by Somma (2004). SSR markers Hpms1-117, Hpms 1-168, Hpms 1-274, EPMS 650 and CAMS 117 were used for molecular analysis. The molecular evaluation of the regenerants showed that all androgenic regenerants had the same allele for all SSR loci as donor genotype Edita F1. Additionally, all androgenic regenerants were homozygotes for the five tested loci.

Key words: *Capsicum annum* L., androgenesis, androgenic plants, SSR markers.

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