

DRUŠTVO GENETIČARA SRBIJE  
SEKCIJA ZA OPLEMENJIVANJE ORGANIZAMA

---

SERBIAN GENETIC SOCIETY  
SECTION OF THE BREEDING OF ORGANISMS

DRUŠTVO SELEKCIONERA I SEMENARA  
REPUBLIKE SRBIJE

---

SERBIAN ASSOCIATION OF PLANT  
BREEDERS AND SEED PRODUCERS

# ZBORNİK APSTRAKATA

X SIMPOZIJUMA DRUŠTVA SELEKCIONERA I SEMENARA  
REPUBLIKE SRBIJE

i

VII SIMPOZIJUMA SEKCIJE ZA OPLEMENJIVANJE ORGANIZAMA  
DRUŠTVA GENETIČARA SRBIJE

VRNJAČKA BANJA, 16.-18. OKTOBAR 2023.

# BOOK OF ABSTRACTS

X SYMPOSIUM OF THE SERBIAN ASSOCIATION OF PLANT  
BREEDERS AND SEED PRODUCERS

AND

VII SYMPOSIUM OF THE SERBIAN GENETIC SOCIETY  
SECTION OF THE BREEDING OF ORGANISMS

VRNJAČKA BANJA - SERBIA, 16-18 OCTOBER 2023

Beograd/Belgrade  
2023.

**Izdavač/Publisher**

Društvo genetičara Srbije, Beograd  
Serbian Genetic Society, Belgrade

Društvo selekcionera i semenara Republike Srbije  
Serbian Association of Plant Breeders and Seed Producers, Belgrade

**Urednici/Editors**

dr Vesna Perić, dr Vojka Babić, dr Sandra Cvejić

**Priprema za štampu i realizacija štampe**

ABRAKA DABRA, Novi Sad

**Tiraž**

150

Ova publikacija je štampana uz finansijsku pomoć Ministarstva nauke, tehnološkog razvoja i inovacija

Simpozijum je organizovan u saradnji sa Institutom za kukuruz "Zemun Polje", Beograd i Institutom za ratarstvo i povrtarstvo, Institutom od nacionalnog značaja za Republiku Srbiju, Novi Sad

**ISBN: ISBN-978-86-87109-17-9**

Beograd/Belgrade

2023.

X SIMPOZIJUM DRUŠTVA SELEKCIONERA I SEMENARA REPUBLIKE SRBIJE i VII  
SIMPOZIJUM SEKCIJE ZA OPLEMENJIVANJE ORGANIZAMA DRUŠTVA GENETIČARA  
SRBIJE

Vrnjačka Banja, 16.-18. oktobar 2023.

X SYMPOSIUM OF THE SERBIAN ASSOCIATION OF PLANT BREEDERS AND SEED  
PRODUCERS and VII SYMPOSIUM OF THE SERBIAN GENETIC SOCIETY SECTION OF  
THE BREEDING OF ORGANISMS

Vrnjačka Banja - Serbia, 16-18 October 2023

**Počasni odbor/**

dr Miodrag Tolimir

dr Milena Simić

Prof. dr Jegor Miladinović

Prof. dr Dragana Latković

dr Aleksandar Lučić

dr Darko Jevremović

dr Dejan Sokolović

dr Milan Lukić

dr Nenad Đurić

Prof. dr Nikola Ćurčić

**Naučni odbor/Scientific Committee**

dr Vesna Perić, predsednik

dr Violeta Anđelković

Prof. dr Ana Marjanović Jeromela

dr Aleksandra Radanović

dr Dušan Stanisavljević

dr Ivana S. Glišić

dr Jelena Ovuka

dr Jovan Pavlov

dr Milan Mirosavljević

dr Mirjana Petrović

dr Natalija Kravić

dr Dobrovoj Poštić

dr Nikola Grčić

dr Sanja Mikić

dr Snežana Dimitrijević

dr Sofija Božinović

dr Svetlana Roljević Nikolić

dr Vladan Popović

dr Vladimir Filipović

dr Zdenka Girek

**Organizacioni odbor/Organizing Committee**

dr Vojka Babić, predsednik

dr Sandra Cvejić, zamenik predsednika

dr Aleksandar Popović

Prof. dr Dragana Miladinović

dr Jelena Srdić

dr Milan Jocković

dr Ratibor Štrbanović

dr Vuk Đorđević

**Sekterarijat/Secretariat**

Beka Sarić, master

Danka Milovanović, master

dr Iva Savić

Miloš Krstić, master

Nemanja Ćuk, master

Sanja Jovanović, master

Maja Šumaruna, master

## PARAMETRI KVALITETA SEMENA ULJANE REPICE PRI RAZLIČITIM TRETMANIMA

Jelena Ovuka<sup>1</sup>, Daliborka Butaš<sup>1</sup>, Miloš Krstić<sup>1</sup>, Dušica Jovičić<sup>1</sup>, Sonja Gvozdenac<sup>1</sup>, Ana Marjanović Jeromela<sup>1</sup>, Sandra Cvejić<sup>1</sup>

<sup>1</sup>Institut za ratarstvo i povrtarstvo, Institut od nacionalnog značaja za Republiku Srbiju, Maksima Gorkog 30, 21000 Novi Sad, Srbija  
e-mail: [jelena.ovuka@ifvcns.ns.ac.rs](mailto:jelena.ovuka@ifvcns.ns.ac.rs)

Proizvodnja uljane repice u Srbiji prati trend porasta površina pod uljaricama u svetu. Kao najvažniji preduslov za uspešnu proizvodnju i postizanje visokih prinosa neophodno je obezbediti seme visokog kvaliteta i osigurati optimalan sklop biljaka. Kvalitetan tretman semena se pokazao kao najbolje rešenje za zaštitu biljaka u početnim fazama razvoja. Ispitivanja su izvedena na tri sorte ozime uljane repice: Ana, Zorica i Jasna. Seme je tretirano fungicidima sa aktivnim materijama karboksini + tiram i fluopikolid + fluoksastrobin, kao i insekticidom sa a.m. flupiradifuron, a kontrola je bilo netretirano seme. Uticaj tretmana ispitan je primenom standardnog laboratorijskog metoda i nakon 7 dana utvrđeni su klijavost semena i dužina ponika. Klijavost semena u kontroli se kretala od 92% do 93%. U proseku, najveću klijavost imalo je seme tretirano sa fungicidom fluopikolid + fluoksastrobin (94 – 98%). Značajno nižu klijavost imalo je seme sorte Jasna (84%) i Ana (88%) tretirano kombinacijom fungicida karboksini + tiram i insekticida. Dužina ponika je bila statistički značajno najveća kod semena sorte Jasna (18,27 cm) tretiranog fungicidom fluopikolid + fluoksastrobin, koja je i u proseku za sve tretmane imala najveću vrednost ispitivanog parametra. Najniže vrednosti su dobijene kod ponika sorte Zorica (13,39 cm) pri tretmanu fungicidom karboksini + tiram. Za uspešnu proizvodnju treba odabirati tretmane koji imaju pozitivan efekat na kvalitet semena.

**Ključne reči:** uljana repica, seme, klijavost, dužina ponika

**Zahvalnica:** Rad je podržalo Ministarstvo nauke, tehnološkog razvoja i inovacija Republike Srbije (451-03-47/2023-01/200032), Evropska komisija kroz projekat Twinning Western Balkans CROPINNO (101059784) i Centar izuzetnih vrednosti za inovacije u oplemenjivanju biljaka tolerantnih na promene klime – Climate Crops Instituta za ratarstvo i povrtarstvo, Instituta od nacionalnog značaja za Republiku Srbiju, Novi Sad, Srbija.

## OILSEED RAPE SEED QUALITY PARAMETERS IN RELATION TO TREATMENT

Jelena Ovuka<sup>1</sup>, Daliborka Butaš<sup>1</sup>, Miloš Krstić<sup>1</sup>, Dušica Jovičić<sup>1</sup>, Sonja Gvozdenac<sup>1</sup>, Ana Marjanović Jeromela<sup>1</sup>, Sandra Cvejić<sup>1</sup>

<sup>1</sup>Institute of Field and Vegetable Crops, National Institute of the Republic of Serbia, Maksima Gorkog 30, 21000 Novi Sad, Serbia  
e-mail: [jelena.ovuka@ifvcns.ns.ac.rs](mailto:jelena.ovuka@ifvcns.ns.ac.rs)

The production of oilseed rape in Serbia follows the trend of increasing areas under oil crops in the world. As the most important precondition for successful production and achieving high yields, it is necessary to provide high-quality seeds and ensure an optimal plant number per hectare. Quality seed treatment has proven to be the best solution for plant protection in the initial stages of development. Test was performed on three varieties of winter rapeseed: Ana, Zorica and Jasna. The seeds were treated with fungicides with a.i. carboxin + thiram and fluopicolide + fluoxastrobin, as well as an insecticide with a.i. flupyradifurone, and control was untreated seeds. The effect of the treatment was tested using a standard laboratory method, and after 7 days, seed germination and seedling length were determined. Seed germination in the control ranged from 92% to 93%. On average, seeds treated with the fungicide fluopicolide + fluoxastrobin had the highest germination (94-98%). The seeds of Jasna (84%) and Ana (88%) varieties treated with the combination of fungicide carboxin + thiram and insecticide had a significantly lower germination rate. The seedlings length was statistically significantly highest in the seeds of Jasna variety (18.27 cm) treated with fungicide fluopicolide + fluoxastrobin, which had the highest value of the tested parameter on average for all treatments. The lowest values were obtained in seedlings of Zorica variety (13.39 cm) treated with the fungicide carboxin + thiram. For successful production, treatments that have a positive effect on seed quality should be selected.

**Key words:** rape seed, seed, germination, seedling length

**Acknowledgment:** The work was supported by the Ministry of Science, Technological Development and Innovation of the Republic of Serbia (451-03-47/2023-01/200032), European Commission through the project Twinning Western Balkans CROPINNO (101059784) and Centre of Excellence for Innovations in Breeding of Climate Resilient Crops – Climate Crops, Institute of Field and Vegetable Crops, National Institute of the Republic of Serbia, Novi Sad, Serbia.