



Student Training Course - Classical and Modern Approaches in Crop Breeding

22-26 September 2025
IFVCNS, Novi Sad, Serbia

Course name: Classical and modern approaches in crop breeding

Date: 22-26 September 2025

Organizer: IFVCNS

Participants: 6 graduate students from Kenya, Ethiopia and Palestine

Day 1 – Molecular Lab

9.00-12.00 DNA Extraction

DNA extraction from leaf tissue – (Dr. Dragana Trkulja/Dr. Marina Čeran)

12.00-13.30 Lunch – Maize Department

14.00-16.30 Gel Electrophoresis

Checking of DNA quality on gel – (Dr. Dragana Trkulja/Dr. Marina Čeran)

Day 2 - Maize Department – Small Meeting Room

9.00-9.30 Introduction (Dr. Dragana Miladinović), Tour de Table (All participants) and *Group Photo*

9.30-10.30 Pre-breeding and Use of Genetic Resources (Dr. Sanja Mikić/Dr. Ana Marjanović Jeromela)

10.30-10.50 Questions and Discussion

10.50-11.20 Coffee Break

11.20-12.20 Line Breeding: Bulk, Pedigree, Backcross (Dr. Milan Miroslavljević/Dr. Jegor Miladinović)

12.20-12.40 Questions and Discussion

12.40-14.00 Lunch

14.00-15.00 Hybrid Breeding (Dr. Milan Jocković)

15.00-15.20 Questions and Discussion

15.20-16.20 Breeding for Stress Resistance (Dr. Sandra Cvejić)

16.20-16.40 Questions and Discussion

Day 3- Maize Department – Small Meeting Room

9.00-10.00 Tissue Culture in Breeding (Dr. Ankica Kondić-Špika/Dr. Dragana Trkulja)

10.00-10.20 Questions and Discussion

10.20-10.50 Coffee Break

10.50-11.50 Molecular Breeding (Dr. Marina Čeran/Dr. Aleksandra Radanović)

11.50-12.10 Questions and Discussion

12.10-13.30 Lunch

13.30-14.30 HTPP in Lab (Dr. Aleksandra Radanović)

14.30-14.50 Questions and Discussion

14.50-15.50 HTPP in Field Trials (Dr. Predrag Ranđelović/Dr. Vuk Đorđević)

15.50-16.10 Questions and Discussion

Day 4 - Maize Department – Small Meeting Room

9.00-10.00 Seed Production, Biology and Quality (Dr. Vladimir Miklič)

10.00-10.20 Questions and Discussion

10.20-10.50 Coffee Break

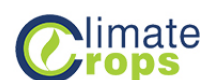
10.50-11.50 Field Trials Data Analysis (Dr. Goran Bekavac)

11.50-12.10 Questions and Discussion

12.10-13.30 Lunch



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13.30-14.30 Integrated Data Analysis (Dr. Vuk Đorđević)

14.30-14.50 Questions and Discussion

Day 5

9.00-12.00 Field trip – Experimental Fields

Crop demonstration trials. Each crop field will be hosted by researchers from IFVCNS, who will give short introduction and then answer the questions and give explanations.

9.00-9.45 Pre-breeding – Sunflower Wild Species (Dr. Jelena Jocković)

9.45-10.15 Commercial Breeding – Sunflower (Dr. Siniša Jocić/Dr. Nada Hladni)

10.15-10.45 Breeding – Legume Crops (Dr. Vuk Đorđević)

10.45-11.15 Breeding – Soybean (Dr. Jegor Miladinović)

11.15-11.45 Commercial Breeding – Maize (Dr. Goran Bekavac)

12.00-13.30 Lunch – Maize Department

13.30-16.30 HTPP and Speed Breeding – Labs at Sunflower and Legume Crops Departments

Group 1

13.30-14.15 Sunflower Emasculation and Pollination (Dr. Milan Jocković/Dr. Nemanja Ćuk)

14.15-15.00 Speed Breeding – Basics and Requirements (Dr. Predrag Ranđelović/Dr. Vuk Đorđević/Dr. Marina Ćeran)

15.00-15.45 HTPP Root Phenotyping - Rhizotrons (Dr. Boško Dedić)

15.45-16.30 HTPP Phenotyping – WinRHIZO (Dr. Aleksandra Radanović)

Group 2

13.30-14.15 Speed Breeding – Basics and Requirements (Dr. Predrag Ranđelović/Dr. Vuk Đorđević/Dr. Marina Ćeran)

14.15-15.00 Sunflower Emasculation and Pollination (Dr. Milan Jocković/Dr. Nemanja Ćuk)

15.00-15.45 HTPP Phenotyping – WinRHIZO (Dr. Aleksandra Radanović)

15.45-16.30 HTPP Root Phenotyping - Rhizotrons (Dr. Boško Dedić)



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