

ISC2022 POSTERS

Monday, 20 June

16.00-17.00 Poster session – Sections 1, 2, 3, 4

Section 1

- 1.1 Sandra Cvejić: Feature selection and performance assessment of machine learning algorithms for sunflower oil yield prediction
- 1.2 Marisa della Madalena: Imidazolinone-induced male sterility in sunflower: a novel strategy for hybridization
- 1.3 Alix Allard: Comparison between the predicted performances of simulated sunflower breeding populations and the predicted breeding values of realized progenies
- 1.4 Daniela Valkova: Correlation analysis for seed yield and its component traits in experimental sunflower IMI resistant hybrids
- 1.5 Velimir Radić: Correlations and path analyses of some sunflower breeding parameters
- 1.6 Dragana Miladinović: The first report on efficient CRISPR-based protocol for sunflower
- 1.7 Matias Dominguez: Development of populations for sunflower disease resistance breeding

Section 2

- 2.1 Jelena Ovuka: Sunflower seed oil content depending on the seedling type
- 2.2 Christine Fintz: Time Domain-NMR with chemometric analysis: An alternative tool for determination protein content in sunflower seeds
- 2.3 Nada Grahovac: Extraction yield obtained by pressing sunflower seed
- 2.4 Sylvie Dauguet: Dry fractionation process of sunflower meal for the production of protein and phenolic compounds enriched fractions
- 2.5 Sylvie Dauguet: Enzymatic release of caffeic acid from sunflower meal and improvement of its antioxidant activity in emulsion by lipophilisation
- 2.6 Yakov Demurin: Sunflower improvement in seed and oil quality in Russia
- 2.7 Mohammed Loudiyi: Amino acid profile in sunflower seeds

Section 3

- 3.1 Zvonimir Sakač: Investigation and comparison of geometric characteristics of oily and non-oily sunflower hybrid seeds
- 3.2 Ana Đurović: Polyphenols and flavonoids contents in seed cake from Serbia confectionary sunflower (*Helianthus annuus* L.)
- 3.3 Nada Hladni: Assessment of stability of seed oil and protein content in confectionary hybrids using the apple AMMI analysis
- 3.4 Monica Lopez Pereira: Response of seed yield and seed size to plant density in two confectionary sunflower hybrids

Section 4

- 4.1 Jelena Jocković: Secretory tissues of discs flowers in wild *Helianthus* L. species
- 4.2 Maria Petrova: Study of the reaction of *Helianthus debilis* accessions to *Phomopsis*/ *Diaporthe helianthi* Munt.-Cvet.
- 4.3 Yalcin Kaya: Flow cytometrical characterization in sunflower genus
- 4.4 Min Chang: Resistance of wild *helianthus* species to the prevailing Chinese broomrape (*Orobanche cumana* L.) races
- 4.5 Jelena Jocković: Root xylem anatomy of the wild and cultivated sunflower
- 4.6 Keranka Jecheva: Resistance of wild sunflower species to mild-stalk rot caused by *Sclerotinia sclerotiorum*

Tuesday, 21 June

16.00-17.00 Poster session – Sections 5, 6, 7, 8

Section 5

- 5.1 Rita Ban: Occurrence of *Plasmopara halstedii* (sunflower downy mildew) pathotypes in Hungary
- 5.2 Nemanja Ćuk: Evaluation of sunflower inbred lines tolerance to *Macrophomina phaseolina* using different inoculation methods
- 5.3 Ahmed Ibrahim Alrashid Yousif: Preliminary study on the effect of different plant resistance inducers against sunflower downy mildew (*Plasmopara halstedii*)
- 5.4 Kevein Ruas Oliveira: Changes in the antioxidant enzyme activity levels of sunflower (*Helianthus annuus* L.) inoculated by *Plasmopara halstedii* (sunflower downy mildew) and treated with azadirachtin (Neemazal t/s)
- 5.5 Željko Milovac: Click beetles monitoring using pheromone traps in Serbia
- 5.6 Nisha Nisha: Fungicide tolerance of *Plasmopara halstedii* (sunflower downy mildew) to mefenoxam in Hungary
- 5.7 Dragana Milošević: Colonization of sunflower seed with *Alternaria alternata*
- 5.8 Leire Molinero Ruiz: *Cadophora helianthi*, a new fungus affecting sunflowers in Eastern Europe
- 5.9 Dragana Milošević: *Botrytis cinerea* as causal agent of sunflower seed grey mould
- 5.10 Boško Dedić: *Plasmopara halstedii* race 735 in Serbia
- 5.11 Sonja Tančić-Živanov: Tolerance of NS-sunflower genotypes to charcoal rot
- 5.12 Tatiana Antonova: New races of *Puccinia helianthi* Schwein on sunflower in the Russian Federation
- 5.13 Amelia Bertero: Races and oomyceticide tolerances of *Plasmopara halstedii* in Argentina
- 5.14 Amelia Bertero: Climate risk of the Argentine pampas region regarding the release of *Diaporthe helianthi* ascospores
- 5.15 Tatiana Antonova: New races of *Puccinia helianthi* Schwein on sunflower in the Russian Federation
- 5.16 Maria Iwebor: *Alternaria* on sunflower in regions of the Russian Federation: Species and their pathogenicity
- 5.17 Emmanuelle Mestries: Development of molecular markers to identify sunflower downy mildew races
- 5.18 Emmanuelle Mestries: Evolution of sunflower downy mildew in France

Section 6

- 6.1 Milan Jocković: New approaches in phenotype prediction – Machine learning techniques
- 6.2 Hudaverdi Gurkan: Assessment of Climate Change on Sunflower Production Using the Aquacrop Model in the Konya Basin of Türkiye
- 6.3 Brankica Babec: The effect of legumes and sunflower intercropping on soil compaction
- 6.4 Jovan Crnobarac: The influence of sowing date on yield and quality of NS sunflower hybrids
- 6.5 Goran Maliidža: Importance of halauxifen-methyl for integrated weed management in sunflower, with special emphasis on the control of resistant common ragweed to ALS inhibitors
- 6.6 Milan Jocković: New approaches in phenotype prediction – Machine learning techniques
- 6.7 Dumitru Manole: The improvement of sunflower crop technology in Dobrogea under climate changes
- 6.8 Philippe Debaeke: How to combine environmental indicators for characterizing and clustering variety testing trials? Application to sunflower in France
- 6.9 Monica Lopez Pereira: Sunflower oil yield responses to wide inter-row spacing
- 6.10 Samet Saglam: Determination of yield performances of IMI type sunflower (*Helianthus annuus* L.) hybrids resistant to broomrape and downy mildew

Section 7

- 7.1 Goran Malidža: Sensitivity of different herbicide-tolerant sunflower hybrids to selected ALS-inhibiting herbicides
- 7.2 Dumitru Manole: The effect of climatic changes – hail and storm on sunflower hybrids – Constanta County, Dobrogea area, Romania
- 7.3 Georgi Georgiev: Components related to higher head diameter, heterosis, and type of inheritance in oil seed sunflower (*Helianthus annuus* L.)
- 7.4 Michail Christov: New form cultivated sunflower (*Helianthus annuus* L.) with resistance to the herbicides Pulsar and Express
- 7.5 Dragana Miladinović: Climate Crops Centre of excellence – Bringing innovation in sunflower breeding for climate resilience
- 7.6 Aleksandra Radanović: Creating climate-smart sunflower for future challenges – The SmartSun multidisciplinary project

Section 8

- 8.1 Igor Balalić: Feasibility of double cropping system with camelina and sunflower in Serbia
- 8.2 Branislav Pejak: Mapping sunflower areas using high resolution Sentinel-2 images
- 8.3 Jasna Savić: Types of sunflower hybrids registered in Serbia
- 8.4 Yalcin Kaya: Stability in seed yield over years in confectionery sunflower

Wednesday, 23 June

14.30-15.30 Poster session – Sections 9, 10

Section 9

- 9.1 Tatiana Antonova: Environmentally safe method of control of broomrape (*Orobanche cumana* Wallr.), parasitizing on sunflower
- 9.2 Stella Clapco: Aggressiveness of broomrape populations infesting sunflower in different countries
- 9.3 Boško Dedić: Sunflower broomrape - Update on virulence in Serbia
- 9.4 Matthias Pfenning: Herbicide seed treatment in Clearfield™[®] Plus sunflower against early *Orobanche cumana* attack
- 9.5 Angela Port: Degree of intra- and interpopulation diversity of some Moldovan *O. cumana* populations
- 9.6 Maria Duca: Genetic variability of *O. cumana* populations infesting sunflower in different countries
- 9.7 Stephane Munos: ORTOBOX – A toolbox to evaluate sunflower varieties for their resistance to broomrape
- 9.8 Maria Pacueranu: The dynamics of the pathogens which attack sunflower crop in Romania
- 9.9 Tatiana Antonova: Environmentally safe method of control of broomrape (*Orobanche cumana* Wallr.), parasitizing on sunflower

Section 10

- 10.1 Phrasia Mapfumo: Planting date and environments affect sunflower development, yield and Sclerotinia head rot progression
- 10.2 Jelena Ovuka: The different invigoration techniques for sunflower seeds
- 10.3 Miloš Krstić: Seed size and substrate effect on seed germination of inbred sunflower lines
- 10.4 Nina Nenova: Study on important indices in the seeds of some sunflower hybrids and their correlation
- 10.5 Olivier Catrice: Heliopollen: deciphering the molecular bases of sunflower nectar production in response to drought stress
- 10.6 Sonja Tančić-Živanov: Growth promoting activity of *Trichoderma* spp. on sunflower seedlings
- 10.7 Vladimir Miklič: Towards new solutions for the chemical desiccation of sunflower
- 10.8 Željko Milovac: Bee vectoring of biologicals in sunflowers as a crop protection tool