



Dr. Violeta Anđelković
Head of Gene bank
Principal Research Fellow
Genetic/Physiology
Tel. ++ 381 11 37 56 704
e-mail: avioleta@mrizp.rs

Education

University of Belgrade, Faculty of Agriculture, Serbia. B.Sc. in Agriculture, 1992.

University of Belgrade, Faculty of Agriculture, Serbia. M.Sc. in Biotechnical Science (Plant physiology), 1995.

University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia. Ph.D. in Agricultural Sciences (Genetic), 2000.

Research interest

- Drought tolerance in maize (molecular, physiological and agronomic level)
- Maize genetic resources, diversity, genotyping and phenotyping.
- Prebreeding and creation of core collections for important traits (drought, grain quality)

Participation in projects in last 10 years

- Identification of drought tolerant sources in maize genbank (TR-20014), 2008-2011. Leader of Project financed by Ministry of Science and Technological Development of Republic of Serbia.
- Exploitation of maize diversity to improve grain quality and drought tolerance (TR 31028): Ministry of Science and Technological Development of Republic of Serbia (2011-2014).
- Improvement of maize and soybean traits by molecular and conventional breeding (TR 31068): Ministry of Science and Technological Development of Republic of Serbia (2011-2014).
- Evaluation of Natural and Mutant Genetic Diversity in Cereals Using Nuclear and Molecular Techniques. IAEA (International Atomic Energy Agency) project no. RER/5/013, 2007-2011.
- Harnessing Plant Reproduction for Crop Improvement. 2009-2013. COST Action FA0903.
- Evaluation of High Quality and Stress Tolerance of Maize Germplasm Resources. Bilateral cooperation with China (2011-2013).
- Approaches to agronomic evaluation and molecular characterization of local maize germplasm for the benefit of hybrid era. Bilateral cooperation with France (2014-2016).
- Biodiversity and Molecular Plant Breeding, (KK.01.1.1.01.0005), Centre of Excellence (CoE CroP-BioDiv), Republic of Croatia (2018-2022).
- *INVITE -SFS-29-2018*: Innovation in Plant Variety Testing. Horizon 2020, (2019-2022).

Postdoctoral study and additional training

- Max-Planck Institute for Plant Breeding; Department for Plant Breeding and Yield Physiology, Cologne, Germany, June 2001-December 2002, postdoctoral study.
- CIMMYT, Mexico, Physiology Program of Maize, April 1997.
- KWS, Einbeck, Germany, August 2000.
- ECPGR (European Cooperative Programme for Plant Genetic Resources) Workshop: Assessing current practices and procedures to strengthen AEGIS (A European Genebank Integrated System), Madrid, Spain, December 2018.

Other activities

- EUCARPIA Board member, representative of Serbia (2008-2016)
- Member of Maize working group (WG) within ECPGR (European Cooperative Programme for Plant Genetic Resources)
- Serbian Genetics Society, member of Presidency, President of Section for Breeding Organisms (2016 to present)
- Serbian Association of Plant Breeders and Seed producers
- Member of the Editorial Board of Serbian Journals, Genetika and Field and Vegetable Crops.
- Chairman of the Board of Directors at the Institute for Animal Husbandry from 2014.

Relevant publications:

- **Andjelkovic, V.**, Ignjatovic-Micic, D. (2011). ESTs analysis in maize developing kernels exposed to single and combined water and heat stress. *Scientia Agricola* 68 (3): 353-360.
- Babic Vojka, Jelena Vancetović, Prodanović S., **Violeta Andjelkovic**, Babic M., Natalija Kravić (2012): The identification of drought tolerant maize accessions by the two-step cluster analysis. *Romanian Agricultural Research* 29: 53-61.
- Kravić Natalija, Ksenija Marković, **Violeta Anđelković**, Vesna Hadži-Tašković Šukalović, Vojka Babić, Mirjana Vuletić (2013): Growth, proline accumulation and peroxidase activity in maize seedlings under osmotic stress. *Acta Physiologia Plantarum* 35 (1): 233-239.
- Assenov B., **V. Andjelkovic**, D. Ignjatovic-Micic, J. Vancetovic, A. Nikolic, N. K. Christov, S. Tsonev, N. Abu-Mhadi, D. Vassilev, Y. Muhovski, M. Ilchovska and E. Todorovska (2013): Identification of SNP Mutations in *MYBE-1* Gene Involved in Drought Stress Tolerance in Maize. *Bulgarian Journal of Agricultural Science*, 19: 181-185.
- Vancetovic J., D. Ignjatovic-Micic, S. Bozinovic, M. Babic, M. Filipovic, N. Grcic, **V. Andjelkovic** (2013): Grain quality of drought tolerant accessions within a maize germplasm collection. *Spanish Journal of Agricultural Research*, 12 (1): 186-194.
- Ignjatovic-Micic Dragana, Marija Kostadinovic, Sofija Bozinovic, **Violeta Andjelkovic**, Jelena Vancetovic (2014): High grain quality accessions within a maize drought tolerant core collection. *Scientia Agricola* 71 (5): 402-409.
- **Andjelkovic Violeta**, Natalija Kravic, Vojka Babic, Dragana Ignjatovic-Micic, Zoran Dumanovic, Jelena Vancetovic (2014): Estimation of drought tolerance among maize landraces from mini-core collection. *Genetika* 46 (3): 775-788.
- Babic Vojka, Jelena Vancetovic, Slaven Prodanovic, Natalija Kravic, Milosav Babic, and **Violeta Anđelkovic** (2015): Numerical Classification of Western Balkan Drought Tolerant Maize (*Zea mays* L.) Landraces. *Journal of Agricultural Science and Technology* 17: 455-468.
- Kravić Natalija, Hadži-Tašković Šukalović Vesna, Babić Vojka, Srdić Jelena, Mesarović Jelena, **Anđelković Violeta** (2018): Maize seedling performance as a potential index for drought tolerance. *Archives of Biological Sciences*, Vol. 70 (1): 167-77.
- **Andjelkovic Violeta**, Ana Nikolic, Dragan Kovacevic, Snezana Mladenovic-Drinic, Natalija Kravic, Vojka Babic, Mirjana Srebric, Mirjana Jankulovska, Sonja Ivanovska, Dane Bosev (2018): Conserving maize in gene banks: Changes in genetic diversity revealed by morphological and SSR markers. *Chilean Journal of Agricultural Research*, 78 (1): 30-38.

Released maize hybrids:

Ivanović M. and *Violeta Anđelković*: ZPSC 694, Number 4/008-515/012, date 02.11.2001.
Ministry of Agriculture of Republic of Serbia

Ivanović M. and *Violeta Anđelković*: ZPSC 740, Number 4/008-154/022, date 12.03.2002.
Ministry of Agriculture of Republic of Serbia

Filipović M., O.Stojnić, *V.Anđelković*, Z.Čamdžija: ZP 644, Number 320-04-00119/2/2011-11, date 04.01.2013. Ministry of Agriculture of Republic of Serbia