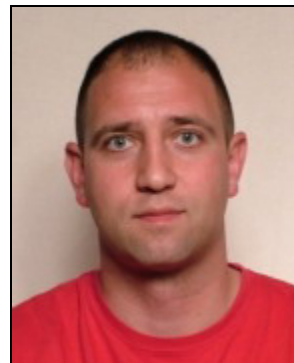


Research experience: Curriculum Vitae

Personal Details

Name: Dejan Pljevljakušić
Gender: Male
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Career History

- Since 2014 **Institute for Medicinal Plants Research “Dr Josif Pančić”, Belgrade**
Research Associate in the Department of Agronomical R&D
- 2007 – 2014 **Institute for Medicinal Plants Research “Dr Josif Pančić”, Belgrade**
Research Assistant in the Department of Agronomical R&D
- 2007 – 2013 **University of Belgrade, Faculty of Agriculture**
Ph.D. in Biotechnology, supervisor: Prof. Z. Dajić-Stevanović;
Thesis: *Influence of growing conditions on morphological and chemical properties and biological effects of extracts of Arnica montana L.*
- 2003 – 2007 **Institute for Medicinal Plants Research “Dr Josif Pančić”, Belgrade**
Junior Researcher in the Department of Agronomical R&D
- 1996 – 2002 **University of Belgrade, Faculty of Agriculture**
Diploma in Agronomy
Diploma Thesis: *Wheat (Triticum aestivum L.) salt tolerance QTL analysis*, Supervisor: Prof. G. Šurlan, in cooperation with Prof. S. Quarrie (JIC, Norwich, England)

Research Projects

- Since 2011 **Fundamental research project – OI 172053**
Project entitled: *Bioactive natural products of wild, cultivated and edible plants: determination of structures and activities*
- Since 2011 **Innovation project – III 46013**
Project entitled: *Traditional and new products from the fruits of cultivated and wild species of fruit trees and vines, and by-product processing, with a focus on indigenous varieties: chemical characterization and biological profile*

CV – Dejan Pljevljakušić
August 2017

- 2008 – 2011 **Technological development project – TR 20108**
Project entitled: *Wild and cultivated herbs in biozones of Serbia for the sustainable development of mountainous regions. Part I*
- 2006 – 2008 **National project - BTN 321003B**
Project entitled: *Standardized liquid extracts of cultivated gentian root (extractum gentianae) and arnica flowers (extractum arnicae) for use in the pharmaceutical, food and cosmetic industries*
- 2003 – 2006 **National project - BTN 2390724B**
Project entitled: *Production of crops program: Production of standardized dry extract of St. John's wort (Hypericum perforatum L.) with high content of hypericin*

Bilateral Projects

- 2014 – 2015 **Scientific and technological cooperation between Serbia and Slovenia**
Project entitled: *Investigation of edible wild plants and weeds with organic plantation in Serbia and Slovenia as well as potential additional sources of food and herbal medicines. (Project leader)*
- 2004 – 2006 **Scientific and technological cooperation between Serbia and Greece**
Project entitled: *Comparative growing Medicinal and Aromatic plants through organic model, sited in Greece and Serbia*

Invited Seminars

- 2015 **Saint Petersburg (Russia), II International seminar “Medical crop science and modern pharmaceutical industry”, UN FAO.**
- 2014 **Zhangzhou (China), Seminar on Tea International Trade and Industrialization for Asian and European Countries in 2014, Zhangzhou College of Science & Technology**
- 2013 **Subotica (Serbia), 1st International Conference on Plant Biology & 20th Symposium of the Serbian Plant Society**
Title: *Influence of planting time, fertilization and propagation type on yield and quality of arnica (Arnica montana L.) (Plenary lecture)*

Trainings

- 2016 Data Scientist course, Johns Hopkins University (Coursera).

- 2002 International Symposium and Training Course on Theoretical and Practical Aspects of Molecular Breeding in Cereals (UNESCO), Agricultural Research Institute, Martonvásár, Hungary (27th May – 7th June, 2002)
- 2001 Crop Genetic Department, John Innes Center, Norwich, England
Supervisor: Dr Steve Quarrie (4th June – 1st September, 2001)

Language Knowledge

Serbian native, **English** fluent

Skills

- Conducting high precision field trials and controlled environment experiments
- Hands-on experience with chromatographic and spectroscopy analytical devices (GC-MS, HPLC)
- Data mining (R Programming, Getting and Cleaning Data, Exploratory Data Analysis, Reproducible Research, Statistical Inference, Regression Models, Machine Learning, Developing Data Products, Version Control Tools, Hadoop, etc.)
- Experience with land cover classification of Sentinel-2 Images (QGIS software)
- Editor-in-Chief of the national scientific journal [Lekovite sirovine](#)

Publication List

A) Articles in refereed journals

1. Čujić, N., Šavikin, K., Janković, T., Pljevljakušić, D., Zdunić, G., Ibrić, S. (2016) Optimization of polyphenols extraction from dried chokeberry using maceration as traditional technique, *Food Chemistry* 194, pp. 135–142.
2. Dajic Stevanovic, Z., Pljevljakusic, D. (2015) Challenges and Decision Making in Cultivation of Medicinal and Aromatic Plants, In: *Medicinal and Aromatic Plants of the World, Vol. 1* (Ed. Ákos Máthé), Springer Science+Business Media Dordrecht, pp. 145-164.
3. Pljevljakušić, D., Janković, T., Jelačić, S., Novaković, M., Menković, N., Beatović, D., Dajić-Stevanović, Z. (2014) Morphological and chemical characterization of *Arnica montana* L. under different cultivation models, *Industrial Crops and Products* 52, pp. 233–244.
4. Šavikin, K., Zdunić, G., Janković, T., Gođevac, D., Stanojković, T., Pljevljakušić,

- D. (2014) Berry fruit teas: Phenolic composition and cytotoxic activity, *Food Research International* 62, pp. 677–683.
5. Šavikin, K., Menković, N., Zdunić, G., Pljevljakušić, D., Spasić, S., Kardum, N., Konić-Ristić, A. (2014) Dietary Supplementation with Polyphenol-Rich Chokeberry Juice Improves Skin Morphology in Cellulite, *Journal of Medicinal Food* 17, pp. 582-587.
 6. Đorđević, B., Pljevljakušić, D., Šavikin, K., Stević, T., Bigović, D. (2014) Essential Oil from Blackcurrant Buds as Chemotaxonomy Marker and Antimicrobial Agent, *Chemistry & Biodiversity* 11, pp. 1228–1240.
 7. Quarrie SA, Steed A, Calestani C, Semikhodskii A, Lebreton C, Chinoy C, Steele N, Pljevljakusic D *et al.* (2005) A high-density genetic map of hexaploid wheat (*Triticum aestivum* L.) from the cross Chinese Spring x SQ1 and its use to compare QTLs for grain yield across a range of environments, *Theoretical and Applied Genetics*, 110, 865-880.
 8. Pljevljakušić, D., Šavikin, K., Janković, T., Zdunić, G., Ristić, M., Godjevac D. and Konić-Ristić, A. (2011) Chemical properties of the cultivated *Sideritis raeseri* Boiss. & Heldr. subsp. *raeseri*, *Food Chemistry*, 124, 1, 226-233.
 9. Pljevljakušić, D., Rančić, D., Ristić, M., Vujisić, L., Radanović, D., Dajić-Stevanović, Z. (2012) Rhizome and root yield of the cultivated *Arnica montana* L., chemical composition and histochemical localization of essential oil, *Industrial Crops and Products*, 39(1), pp. 177-189.
 10. Pavlovic, S., Pljevljakusic, D., Starovic, M., Stojanovic, S., Josic, D. (2012) First report of 16SrIII-B phytoplasma subgroup associated with virescence of *Arnica montana* L. in Serbia. *Plant Disease* 96(11), pp. 1691.
 11. Jug-Dujaković, M., Ristić, M., Pljevljakušić, D., Dajić-Stevanović, Z., Liber, Z., Hančević, K., Radić, T., Šatović, Z. (2012) High diversity of indigenous populations of dalmatian sage (*Salvia officinalis* L.) in essential-oil composition. *Chemistry and Biodiversity* 9 (10) , pp. 2309-2323.
 12. Šavikin, K., Đorđević, B., Ristić, M., Krivokuća-Đokić, D., Pljevljakušić, D. and Vulić, T. (2013) Variation in the Fatty-Acid Content in Seeds of Various Black, Red, and White Currant Varieties, *Chemistry and Biodiversity*, 10(1), pp. 157–165.
 13. Djordjević B, Šavikin K, Zdunić G, Janković T, Vulić T, Pljevljakušić D, Oparnica C. (2013) Biochemical properties of the fresh and frozen black currants and juices, *Journal of Medicinal Food*, 16, pp. 73-81.
 14. Janković, T., Zdunić, G., Beara, I., Balog, K., Pljevljakušić, D., Stešević, D., Šavikin, K. (2012) Comparative study of some polyphenols in *Plantago* species. *Biochemical Systematics and Ecology* 42 , pp. 69-74.

B) Conference proceedings

1. Radanović, D., Nastovski, T., Pljevljakušić D., Jevđović R. (2006): “Growing results of some MAP species at mountainous region of Serbia”, III Conference on MAP of Southeast European Countries, 5 – 8. 9. 2004, Nitra, Slovak Republic, Proceedings, 84 - 93.
2. Radanović, D, Marković, T., Antić – Mladenović S., Pljevljakušić D., Ristić M. Krivokuća Đokić D. (2007): Yield and quality of Arnica (*Arnica montana* and *Arnica chamissonis* var. *foliosa*) cultivated in Serbia, 1st *International Scientific Conference: on Medicinal, Aromatic and Spice Plants*, Nitra, Slovakia, December 5 – 6, 2007, Book of Scientific Papers, 157 – 161.
3. Pavlovic Snežana, Pljevljakušić Dejan, Vukovic Gorica, Starovic Mira, Stojanovic Saša (2012) Fusarium withering of nasturtium, *Tropaeolum majus* L., in Serbia, VII Conference on Medicinal and Aromatic Plants of Southeast European Countries (7th CMAPSEEC), 27-30. May 2012, Subotica, Serbia, Proceedings, pp. 309-314.
4. Pavlovic Snežana, Stevic Tatjana, Pljevljakušić Dejan, Stojanovic Saša, Starovic Mira, Jošić Dragana (2012) Mycopulation of *Leuzea carthamoides* DC. in Serbia, VII Conference on Medicinal and Aromatic Plants of Southeast European Countries (7th CMAPSEEC), 27-30. May 2012, Subotica, Serbia, Proceedings, pp. 315-320.

C) Book chapters

1. Zdunić, G., Šavikin, K., Pljevljakušić, D., Djordjević, B. (2016) Black (*Ribes nigrum* L.) and Red Currant (*Ribes rubrum* L.) Cultivars. In: Simmonds, M.S.J., Preedy, V.R. (Eds.), *Nutritional Composition of Fruit Cultivars*. Academic Press, 101–126.
2. Dajic Stevanovic, Z., Pljevljakusic, D. (2015) Challenges and Decision Making in Cultivation of Medicinal and Aromatic Plants, In: *Medicinal and Aromatic Plants of the World, Vol. 1* (Ed. Ákos Máthé), Springer Science+Business Media Dordrecht, pp. 145-164.

D) Thesis

1. Pljevljakušić, D (2013) *Influence of growing conditions on morphological and chemical properties and biological effects of extracts of Arnica montana L.* Ph.D. thesis, Belgrade
2. Pljevljakušić, D (2002) *Wheat (*Triticum aestivum* L.) salt tolerance QTL analysis* Diploma thesis, Belgrade