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## ***COST ACTION GREENERING – DATA COLLECTION***

**First name, Family Name: Jelena Vladic**

**Type (Academic or Industrial): Academic**

**Country: Serbia**

**Leadership position in the COST: MS Substitute**

**Working Group in which you are involved: WG1, WG3, WG4**

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**Laboratory/Company:** Laboratory for Pharmaceutical Engineering, Department of Biotechnology and Pharmaceutical Engineering, Faculty of Technology, University of Novi Sad, 21000 Novi Sad, Serbia

**Laboratory/Company info:**

Laboratory for Pharmaceutical Engineering is a part of Faculty of Technology Novi Sad. Faculty of Technology is scientific and academic institution which has been providing education to technological and engineering staff for more than 60 years.

**Link to the home page of the Laboratory/Company:**

<http://www.tf.uns.ac.rs/site/index.php/en/>

**Fields of expertise:**

- Green modern extraction technologies (supercritical carbon dioxide, subcritical water, microwave- and ultrasound-assisted extraction technologies)
- Pharmaceutical technology
- Spray drying

**5 Main publications or patents:**

- Vladic, J., Zekovic, Z., Jokić, S., Svilović, S., Kovačević, S., & Vidović, S. (2016). Winter savory: Supercritical carbon dioxide extraction and mathematical modeling of extraction process. *The Journal of Supercritical Fluids*, 117, 89-97.
- Vladic, J., Ambrus, R., Szabó-Révész, P., Vasić, A., Cvejin, A., Pavlić, B., & Vidović, S. (2016). Recycling of filter tea industry by-products: Production of *A. millefolium* powder using spray drying technique. *Industrial Crops and Products*, 80, 197-206.
- Vladic, J., Canli, O., Pavlić, B., Zekovic, Z., Vidović, S., & Kaplan, M. (2017). Optimization of *Satureja montana* subcritical water extraction process and chemical characterization of volatile fraction of extracts. *The Journal of Supercritical Fluids*, 120, 86-94.
- Jakovljević, M.; Vladic, J.; Vidović, S.; Pastor, K.; Jokić, S.; Molnar, M.; Jerković, I. Application of deep eutectic solvents for the extraction of rutin and rosmarinic acid from *Satureja montana* L. and evaluation of the extracts antiradical activity. *Plants* 2020, 9, 153.
- Drinić, Z., Vladic, J., Koren, A., Zeremski, T., Stojanov, N., Kiproviski, B., & Vidović, S. (2019). Microwave-assisted extraction of cannabinoids and antioxidants from *Cannabis sativa* aerial parts and process modeling. *Journal of Chemical Technology & Biotechnology*, 95 (3), 831-839.



**Collaborations:**

IBET (Portugal)

LNEG (Portugal)

Faculty of Food Technology Osijek (Croatia)

University of Szeged (Hungary)

University of Hertfordshire (UK)

Faculty of Food Technology Split (Croatia)

Faculty of Medicine, Faculty of Science, Faculty of Agriculture (Serbia)

Faculty of Food Technologies Zagreb (Croatia)

**Facilities:**

- Laboratory-scale High Pressure Extraction Plant (NOVA – Swiss)
- Pilot Scale Spray Dryer (APV Anhydro)
- Equipment for conventional extraction technologies
- Equipment for pharmaceutical technology (solid and liquid forms)