



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Senka Vidović

Type (Academic or Industrial): Academic

Country: Serbia

Leadership position in the COST: MS Member and Science Communication Manager on COST 18224

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

E-mail: senka.vidovic@uns.ac.rs; senka.vidovic77@gmail.com

Laboratory/Company: Laboratory for Pharmaceutical Engineering, Department of Biotechnology and Pharmaceutical Engineering, Faculty of Technology Novi Sad, 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)
- Spray drying and powders characterization
- Waste valorization
- Pharmaceutical technology

5 Main publications or patents:

- Gavarić A., Vlačić J., Ambrus R., Jokić S., Szabó-Révész P., Tomic M., Blazić M., Vidović S.* Spray drying of a subcritical extract using *Marrubium vulgare* as a method of choice for obtaining high quality powder. *Pharmaceutics*, 11(10), 2019.
- Drinić, Z., Vlačić, J., Koren, A., Zeremski, T., Stojanov, N., Kiproviski, B., & Vidović, S.*. Microwave-assisted extraction of cannabinoids and antioxidants from *Cannabis sativa* aerial parts and process modeling. *Journal of Chemical Technology & Biotechnology*, 95 (3), 831-839, 2019.
- Vlačić, J., Ambrus, R., Szabó-Révész, P., Vasić, A., Cvejic, A., Pavlić, B., & Vidović, S.*. Recycling of filter tea industry by-products: Production of *A. millefolium* powder using spray drying technique. *Industrial Crops and Products*, 80, 197-206, 2016.
- Vlačić, J., Zeković, Z., Jokić, S., Svilović, S., Kovačević, S., & Vidović, S.*. Winter savory: Supercritical carbon dioxide extraction and mathematical modeling of extraction process. *The Journal of Supercritical Fluids*, 117, 89-97, 2016.



- Cvjetko Bubalo M., Vidovic S., Radojic Radenkovic I., Jokic S. Green solvents for green technologies, Journal of Chemical Technology and Biotechnology, 1631-1639, 90(9), 2015.

Collaborations:

IBET (Portugal)

LNEG (Portugal)

University of Valladolid (Spain)

University of Rome Tor Vergata (Italy)

University of Szeged (Hungary)

University of Hertfordshire (UK)

Faculty of Food Technology Osijek (Croatia)

Faculty of Food Technology Split (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)