COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Nataša, Nastić
Type (Academic or Industrial): Academic
Country: Serbia
Leadership position in the COST: Participant
Working Group in which you are involved: WG1, WG3, WG4
E-mail: nat.nastic@gmail.com; natasa.nastic@uns.ac.rs

Laboratory/Company:
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:

- Subcritical water extraction/decomposition; modern extraction techniques; sample preparation.
- Development of analytical methods for isolation and characterisation of natural bioactive compounds.

5 Main publications or patents:

- Nastić, N., Švarc-Gajić, J., Delerue-Matos, C., Barroso, M.F., Soares, C., Moreira, M.M., Morais, S., Mašković, P., Gaurina-Srček, V., Slivac, I., Radošević, K., Radojković, M. (2018): *Subcritical water extraction as an environmentally-friendly technique to recover bioactive compounds from traditional Serbian medicinal plants*. Industrial Crops and Products, 111, 579-589.
- Nastić, N., Švarc-Gajić, J., Delerue-Matos, C., Morais, S., Barroso, M.F., Moreira, M.M., (2018): *Subcritical water extraction of antioxidants from mountain germander (Teucrium montanum L.)*. The Journal of Supercritical Fluids, 138, 200-206.
- Vidović, S., Nastić, N., Gavarić, A., Cindrić, M., Vladić, J. (2018): *Development of green extraction process in order to produce antioxidant-rich extracts from purple coneflower*. Separation Science and Technology, 54(7), 1174-1181.
- Nastić, N., Borrás-Linares, I., Lozano-Sánchez, J., Švarc-Gajić, J., Segura-Carretero, A. (2018): *Optimization of the extraction of phytochemicals from black mulberry (Morus nigra L.) leaves*. Journal of Industrial and Engineering Chemistry, 68, 282-292.

- Nastić, N., Lozano-Sánchez, J., Borrás-Linares, I., Švarc-Gajić, J., Segura-Carretero, A. (2019): *New technological approaches for recovering bioactive food constituents from sweet cherry (Prunus avium L.) stems.* Phytochemical Analysis.

Collaborations:

- LNEG (Portugal)
- Faculty of Food Technology Osijek (Croatia)
- University of Szeged (Hungary)
- 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)