



## AGENDA OF GREENERING (COST 18224) BUBBLE

### ***Bubble Title:***

***The possibility of plant extracts preparation by applying the green extraction technologies followed by encapsulation with the hands-on: supercritical extraction, ultrasound-assisted extraction and spray drying***

***Location of Bubble:*** Faculty of Technology Novi Sad, University of Novi Sad,  
Bulevar cara Lazara 1, Novi Sad

***Duration of Bubble:*** 20<sup>th</sup> and 21<sup>st</sup> September 2023, from 9.00 to 16.15

### **20<sup>th</sup> September**

***Location: Faculty of Technology Novi Sad (Blue Hall, 1<sup>st</sup> floor)***

9.00-9.15	<b>Joint online intro:</b> Welcome to the participants of Novi Sad and Zagreb to GREENERING Bubble
9.15-9.30	<b>Joint online intro:</b> Presentation of the COST Action GREENERING
9.30-10.00	<b>Joint online lecture on:</b> From Fundamentals of Natural Deep Eutectic Solvents to Process Design
10.00-10.20	<b>Joint online lecture on:</b> Supercritical carbon dioxide extraction for the production of high-quality extracts from different types of plant raw materials
10.20-10.40	<b>Lecture on:</b> The basics of ultrasound assisted extraction for the production of high-quality extracts
10.40-11.15	Coffee break

*Location: Faculty of Technology Novi Sad (Laboratories 7 and 8, ground floor)*

11.15-13.30	<b>Hands on:</b> Supercritical extraction by carbon dioxide: equipment, impact of process parameters, and extraction of selected plant material
13.30-14.30	Lunch break
14.30-16.00	<b>Hands on:</b> Ultrasound-assisted extraction: equipment, impact of process parameters, and extraction of selected plant material (Part I)
16.00-16.15	<b>Discussion and conclusions</b> - ending of the first Bubble day

**21<sup>st</sup> September**

*Location: Faculty of Technology Novi Sad (Blue Hall, 1<sup>st</sup> floor)*

9.00-9.15	Reminder on past activities from the first Bubble day
9.15-9.45	<b>Lecture on:</b> Main principles of spray drying technology
10.15-10.45	Coffee break

*Location: Faculty of Technology Novi Sad (Laboratories 7 and 8, ground floor)*

10.45-12.00	<b>Hands on:</b> Pilot scale ultrasound-assisted extraction at optimal process parameters – preparation of the liquid extract (Part II)
12.00-13.00	<b>Hands on:</b> Spray drying of the liquid extract: equipment, impact of process, properties of the obtained powders (Part I)
13.00-14.00	Lunch break
14.00-16.00	<b>Hands on:</b> Spray drying of the liquid extract: equipment and impact of process, properties of the obtained powders (Part II)
16.00-16.15	<b>Discussion and conclusions, evaluation</b> - ending of the GREENERING Bubble