



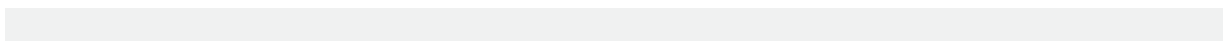
**Root-Benefit**

Beneficial root-associated micro-organisms for sustainable agriculture

<https://www.root-benefit.eu>  
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# **Final Programme**

## **1<sup>st</sup> Annual Meeting**





## Tuesday April 23th (Room 106)

**8:30 – 9:00**      **Welcome (poster mounting in Room 106)**

**9:00 – 9:15**      **Welcome speech by Prof. Līga Ozoliņa-Molla (University of Latvia)**

**Introduction (ROOT-BENEFIT objectives)**

**9:15 – 10:30**      **Presentation by MC members**

**10:30 – 11:00**      **Break**

**11:00 – 12:15**      **Presentation by MC member**

**12:15 -14:00**      **Break – Group photo**

**14:00 – 14:40**      **Plenary presentations related to WG1**

**Davide Bulgarelli** – UK : WG1 objectives – Functional characterization of beneficial microorganism diversity

**Tetiana Kalachova** – Czech Republic: With a little help of my friends: Rhizosphere microbiome dynamics conveys plant resistance to foliar pathogens

**Juan Ignacio Vílchez** – Portugal : Seed microbiota and stress-tolerance enhancing biotreatments

**Stuart Lucas** – Turkey : Metagenomics of soils adapted for wheat cultivation in Türkiye

**14:40 – 15:20**      **Plenary presentations related to WG2**

**Juan Antonio Lopez-Raez** – Spain: WG2 objectives – Molecular mechanisms associated with beneficial interaction networks



**Rafael Jorge León Morcillo** – Spain : Study of molecular mechanisms associated with microbial biostimulant-mediated growth enhancement and abiotic stress tolerance in plants, paying especial attention to microbial volatile compounds.

**Naomi Stuer** – Belgium : snRNA-seq for studying the tomato-AMF interaction at a high spatiotemporal resolution

**Tania Ho-Plagaro** – Spain : Transcriptional regulation of Arbuscular Mycorrhiza by GRAS transcription factors

**15:20 – 16:00**      **Break**

**16:00 – 16:40**      **Plenary presentations related to WG3**

**Jan Jansa** – Czech Republic: WG3 objectives – Ecological and economical services provided by the root beneficial interaction networks.

**Sofia Pereira** – Portugal : Exploring the Influence of Bioinoculants and Biochar on Grapevine-Associated Soil Microbial communities

**Agnès Ardanuy** – France : Molecular tools to describe AMF-wheat interactions: increase in soil phosphate availability induces shift of AMF community and mycorrhizal nitrogen uptake in wheat

**Gülden Balci** – Turkey : Effect of mycorrhiza on vegetative growth of strawberries subjected to drought stress

**16:40 – 17:20**      **Plenary presentations related to WG4**

**Isabel Brito** – Portugal : WG4 objectives – Managing and improving beneficial interaction networks under field conditions

**Anna Maria Pirttilä – Finland : Plant endosymbionts employed for agriculture as biofertilizers and biocontrol agents**

**Mika Tarkka** – Germany : Community analyses and cultivation of rhizosphere microorganisms to assess their potential to increase the stress tolerance of plants



**Judith Van Dingenen** – Belgium : Catching rhizobia to introduce high protein containing soybean for a sustainable agriculture in Europe

- 17:20 – 17:30**      **Communication**
- 17:30 – 17:40**      **STSM call**
- 17:40 – 18:30**      **Drinks/Appetizers – break – poster session – Group photo**
- 19:00**              **Dinner in center of Riga**

## Wednesday April 24<sup>th</sup>

- 9:00 -10:30**      **Plenary discussions (Room 106)**
- Transversal topics (moderators + 1 slide introduction / topic)**
- 10:30 – 11:00**      **Break**
- 11:00 – 12:30**      **WG sessions (Rooms 108, 109, 702, and 334)**
- 12:30 -14:00**      **Break**
- 14:00 – 17:00**      **MC meeting (Room 107)**



## Posters :

- 1. Frederik Bak – Austria : Synthetic bacterial community mimics the assembly pattern of a natural community on wheat roots grown in soil**
- 2. Christos Papadopoulos – Greece : Assessment of the toxicity of pesticides on arbuscular mycorrhizal fungi at testing systems with increasing level of complexity**
- 3. Amaia Nogales – Spain : ROOTBIOME project: Root traits and microbiome markers for climate change adaptation in a fruit tree production system**
- 4. Matias Pasquali – Italy : Exploring the potential applications of streptomycetes in agriculture: from the lab to the field**
- 5. Karolina Jarzyniak – Poland : Rapid identification of rhizobia nodulating soybean by a High-Resolution Melting Analysis**
- 6. Tetiana Kalachova – Czech Republic : With a little help of my friends: Rhizosphere microbiome dynamics conveys plant resistance to foliar pathogens**
- 7. Jelena Ilic – Croatia : Beneficial fungi for plant growth promotion and plant disease protection.**
- 8. Sharon Zytynska – UK : Rhizobacteria-induced plant resistance to aphids: genome to field**
- 9. Ricardo Aroca Álvarez – Spain : Physiological and molecular mechanisms behind arbuscular mycorrhiza and PGPR induced osmotic stress tolerance in plants**
- 10. Burak ALAYLAR – Turkey : Investigation of plant growth promoting properties of endophytic and rhizospheric bacterial strains isolated from *Origanum vulgare* L. ssp. *vulgare* naturally grown in Erzurum.**
- 11. Pothier Joël – Switzerland: Transcriptional reprogramming of lettuce roots in response to chitin soil amendment, effect on plant growth, rhizobiome composition and disease resistance.**
- 12. Angela Koort – Estonia: The effect of of Symbiotic Microfungi on Blueberry (*Vaccinium* sp.) Plant Growth in Polyunnel.**
- 13. Iñigo Zabalgogea zcoa – Spain: A COLLECTION OF FUNGAL ENDOPHYTES**
- 14. Manuel Becana – Spain: Regulation of specific gene expression of hemoglobins in nodules of *Lotus japonicus*.**