

# From microbial interactions to new-concept biopesticides and biofertilizers

First training meeting of the Early Stage Researchers involved in Interfuture Project

## Program

| <b>Monday 16 October, 2017 TENNO</b> |              |  |   |
|--------------------------------------|--------------|--|---|
| 9:30                                 | 9:45         | Welcome and opening of the meeting   |   |
| 9:45                                 | 10:30        | Overview of the Interfuture project: work plan, general objectives, important dates and deadlines.   | Ilaria Pertot, Michele Perazzolli, Gerardo Puopolo, Gianfranco Anfora, Scientific board members |
| 10:30                                | 11:15        | Administration aspects   | Riccarda Moser, Administrative manager of the project   |
| 11:15                                | 11:45        | Coffee break   |   |
| <b>11:45</b>                         | <b>12:45</b> | <b>Session 1: Plant growth promoting microorganisms for a more sustainable agriculture</b>   |   |
| 11:45                                | 12:00        | Untapping the keg of microbial bioproducts using innovative approaches to cultivation. New bio-based products from plants                                      | Maria Vasseur   |
| 12:00                                | 12:15        | Novel biofertilisers based on endophytic bacteria. Innovative approaches to bridge plant-microbe interaction research and bio-product development              | Nikoletta Galambos  |
| 12:15                                | 12:30        | Conventional delivery strategies for bioproducts based on microbial bioproducts  | Aammar Tufail   |
| 12:30                                | 12:45        | Interactions between crop genotypes, antagonistic root colonizing endophytes and arbuscular mycorrhizal fungi  | Mirjam Seeliger   |
| 12:45                                | 14:00        | Lunch  |   |
| <b>14:00</b>                         | <b>14:45</b> | <b>Session 2: Volatile organic compounds as novel eco-friendly pesticides</b>  |   |
| 14:00                                | 14:15        | Selection of microorganisms to develop new tools for the management of <i>Drosophila suzukii</i>   | Amani Alawamleh   |
| 14:15                                | 14:30        | Development of a commercial liquid food trap with addition of bioactive microorganisms to improve attractiveness and specificity for <i>Drosophila suzukii</i> | Gordana Durovic   |
| 14:30                                | 14:45        | Employment of volatile organic compounds produced by   | Anthi Vlassi  |

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|--------------|--------------|---|---|
|              |              | <i>Lysobacter</i> members for the biological control of soilborne plant pathogenic fungi and oomycetes  |   |
| <b>14:45</b> | <b>16:30</b> | <b>Session 3: Interactions and mode of actions of biofertilizers and biofungicides</b>  |   |
| 14:45        | 15:00        | Characterization of stimulators of the phyllosphere microbiota as innovative biocontrol products  | Abdessalem Chahed   |
| 15:00        | 15:15        | Characterization of the mechanism of action of protein- and sugar-based biocontrol products on target and non-target microorganisms   | Nikola Mijailovic   |
| 15:15        | 15:30        | The interactions of the endophytic nitrogen fixing bacterium <i>Gluconacetobacter diazotrophicus</i> with fungal endophytes and rhizosphere micro-organisms associated with ryegrass, <i>Lolium perenne</i> | Martina Franchini   |
| 15:30        | 15:45        | Plant and bacterial factors determining host colonization by, and intracellular uptake of <i>Gluconacetobacter diazotrophicus</i>   | Damini Lal  |
| 15.45        | 16:30        | General discussion  | All the participants  |
| 16:30        | 17:00        | Coffee break  |   |
| 17:00        | 17:30        | Questions and closing remarks   | Ilaria Pertot, Michele Perazzolli, Gerardo Puopolo, Gianfranco Anfora, Scientific board members |
| 18:00        | 20:00        | Aperidinner   |   |



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