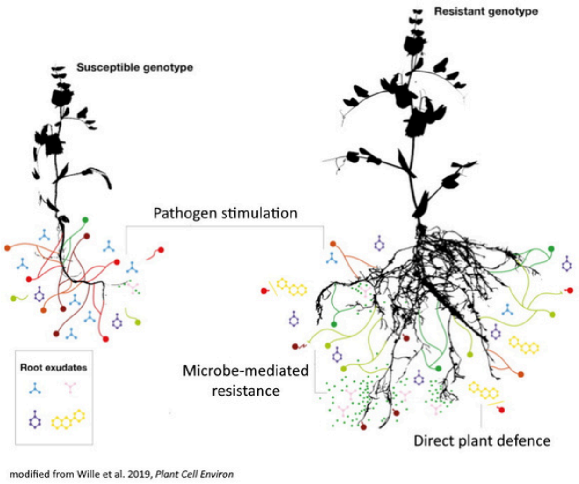
4th Workshop on Implementing Plant-Microbe Interactions in Plant Breeding

When & where

19 July 2024, UFT Tulln
(close to Vienna, Austria)

Workshop direction

Pierre Hohmann (BonaPlanta)
Valentin Gfeller (FiBL)
Friederike Trognitz (AIT)
Monika Messmer (FiBL)



modified from Wille et al. 2019, *Plant Cell Environ*

The workshop aims to establish and strengthen a network among plant breeders and scientists of different disciplines to explore the use of plant-microbe interactions in plant breeding.

Knowledge on plant genetic determinants for beneficial interactions with individual microbes (incl. biologicals) and entire communities is growing rapidly. However, the implementation of such knowledge in plant breeding is still in its infancy. Similarly, plant microbiome manipulation via the early introduction of biologicals (e.g. via seed treatments) offers great promise, but still suffers from variable outcomes.

The workshop is organised by the EUCARPIA Working Group on Plant-Microbe Interactions of the Section Organic and Low-Input Agriculture and will continue to discuss the potential and limitations of implementing its growing knowledge in plant breeding. Previous workshop outputs were synthesised in a perspective article on emerging research priorities towards microbe-assisted crop production (Hohmann et al. 2020, *FEMS Micr Ecol*).

This year's 4th EUCARPIA workshop will continue the discussion and foster the dialogue between the different research disciplines and industry to promote the development of holobiont-based breeding strategies for future resilient agroecosystems.

Keynote Speaker

Raffaella Balestrini
(National Research Council, IT)
Title: Crop Breeding based on root traits and associated microbes

Registration

https://microPe.org/registration_main.php* **June 21**

Abstract submission

To pierre@bonaplanta.eu **May 17**

*For workshop-only participants who do not attend miCROPe, please register by sending an email to pierre@bonaplanta.eu.

Abstract format: Title, author names, affiliations, abstract text (300 words max)