

The Plant Microbiome to the Rescue Gewasbeschermingsmanifestatie



The Plant Microbiome to the Rescue





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Soil-borne legacy of disease



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Berendsen et al. (2018) ISME J Bakker et al. (2018) Cell Goossens et al. (20

Goossens et al. (2023) Nature Microbiology



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Seed tuber microbiome can predict growth potential of potato varieties

Yang Song, Elisa Atza, Juan J. Sánchez-Gil, Doretta Akkermans, Ronnie de Jonge, Peter G. H. de Rooij, David Kakembo, Peter A. H. M. Bakker, Corné M. J. Pieterse, Neil V. Budko & Roeland L. Berendsen 🏼

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Song et al. (2025) Nature microbiology

Drone images analysis by Elisa Atza & Neil Budko (TU Delft)

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Gewas 🗞 beschermings manifestatie

Sanchez-Gil





Integrated crop management for microbiome-optimized agriculture

- **1. Probiotics:** Elite microbes with enhanced rhizosphere competence and functioning. Personalized medicine for plants.
- **2. Prebiotics:** Metabolites (plant or microbe produced) selectively stimulating beneficial microbes and their activities
- **3. Microbiome-optimized crops:** Plant genetics for enhanced microbiome functionality
- 4. Microbiome-based prediction models
- 5. Soil management practises in support of micrbiome functioning

