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Plant Microbiome  
Symposium  
Rhizosphere

# **1st Plant Microbiome Symposium Rhizosphere**

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## **1st Plant Microbiome Symposium Rhizosphere**

1st Plant Microbiome Symposium,  
Jaguariuna, Brazil,  
22nd-24th February  
2016. Phil gave a talk  
entitled 'Stability and  
succession of the  
rhizosphere microbiota

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depends on plant type  
and soil composition’.

Andrzej gave a talk  
entitled ‘Wheat  
Progenitors’  
Microbiome’

## **Lab News | Rhizosphere**

Symposium 1st Plant  
Microbiome Confirmed  
speakers Fernando Dini  
Andreote • University  
of São Paulo, Brazil The  
rhizosphere of  
sugarcane under  
elevated atmospheric

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CO<sub>2</sub> concentration

Gilles van Wezel •

Leiden University, The  
Netherlands

Harnessing ecological  
cues to activate the  
biosynthesis of silent  
antimicrobial  
compounds by  
Actinomycetes

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The rhizosphere  
microbiome is essential  
for plant growth and

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health, and numerous studies have attempted to link microbiome functionality to species and trait composition. However, to date little is known about the actual ecological processes shaping community composition, complicating attempts to steer microbiome functionality.



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**microbiome**

**functional diversity  
and pathogen ...**

Root exudation of metabolites is an important mediator of plant interactions with soil microbes. Here we demonstrate that the tomato rhizosphere microbiome affects the chemical composition of root exudation through a systemic root-root signaling mechanism. We termed this process

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SIREM (systemically induced root exudation of metabolites) and showed that specific microbial colonization of the ...

## **Rhizosphere microbiome mediates systemic root metabolite ...**

Papers should be focused on the root and plant microbiomes and microbial processes. Conference themes that are most

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relevant to the special  
issue include: The Root  
Microbiome, Plant  
Holobiont, Rhizosphere  
Processes for  
Sustainable Agriculture  
and Nutrient Cycling,  
Natural Ecosystem  
Rhizosphere,  
Rhizosphere of  
Extreme Environments  
...

## **Rhizosphere 5**

The rhizosphere  
microbiome plays an  
essential role in plant

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health and productivity and it is often referred as the plant's second genome (Berendsen et al., 2012; Chaparro et al., 2012). Accordingly, our metatranscriptomics data permitted a glimpse at the genes that the microbiome was expressing as a whole at each stage of plant development.

**Rhizosphere  
microbiome**

*Page 12/31*

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**assemblage is  
affected by plant ...**

Functions and ecology of the plant  
microbiome 28th New  
Phytologist  
Symposium. Download  
the 28th NPS abstract  
book. Thanks to all of  
our organisers,  
speakers and  
delegates who helped  
to make the 28th NPS  
such a great success.  
We will continue to  
update the site with  
related information.

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## **28th New Phytologist Symposium**

Although bulk soil not in contact or influenced by roots contains an incredibly diverse microbial community, the microbial community associated with plant roots (the rhizosphere) is much lower in diversity but significantly higher both in overall population numbers

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( $10^{10}$  -  $10^{12}$  cells per gram rhizosphere soil) and specific subsets of the ...

## **Plant Roots - The Root/Rhizosphere Interface: Key to ...**

Hiltner (1904) defined the “rhizosphere” as root-surrounding soil influenced by root exudates (Hartmann et al., 2008). In addition, he was the first to suggest the importance of

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microbial root  
inhabitants for plant  
growth and health. The  
rhizosphere is of  
central importance not  
only for plant nutrition,  
health, and quality.

## **Unraveling the plant microbiome: looking back and future ...**

Phytobiomes Journal  
publishes  
transdisciplinary  
research on organisms  
and communities  
interacting with plants



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in any ecosystem. It includes the fundamental to translational work of scientists in the areas of microbiology, virology, nutrient cycling, climate change, ecology, agronomy, entomology, computational biology, nematology, plant pathology, and more.

**Phytobiomes  
Journal: First Look**

*Page 17/31*

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Plants are subjected to diverse biotic and abiotic stresses in life. These can induce changes in transcriptomics and metabolomics, resulting in changes to root and leaf exudates and, in turn, altering the plant-associated microbial community. Emerging evidence demonstrates that changes, especially the increased abundance of commensal

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microbes following stresses, can be beneficial for plant ...

## **Microbiome-Mediated Stress Resistance in Plants: Trends in ...**

The Plant Microbiome Symposium will provide an exciting meeting ground for scientists with diverse backgrounds in microbial ecology, plant-microbe interactions, molecular

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biology, chemistry and bioinformatics. The meeting in Amsterdam will consist of five sessions - spermosphere, rhizosphere, phyllosphere, endosphere, emerging topics - covering the most important aspects of plant microbiome research.

## **2nd Plant Microbiome Symposium - KNAW**

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The Plant Root System:  
Gateway to Plant-  
Beneficial Rhizosphere  
Microbiome

Interactions Saturday,  
August 3, 2019 08:00  
a.m. - 5:00 p.m.

Despite recognition of  
the importance of the  
plant root system as  
the gateway to plant-  
beneficial interactions  
with the rhizosphere  
microbiome, the  
complexity of root  
classes that constitute  
a plant's root system

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## **2019 Plant Health Meeting: The Plant Root System Workshop ...**

The plant rhizosphere microbiome is a complex assembly of diverse microorganisms, including bacteria, fungi, and protists that together influence plant health [5,6,7,8]. Despite the fact that

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the microbiome consists of diverse groups, most research aiming to understand the role of the microbiome in plant health or disease suppression has focused on bacteria [ 9 , 10 , 11 ] and fungi [ 12 , 13 ].

## **Rhizosphere protists are key determinants of plant health ...**

The first experimental

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approach aims at disentangling the importance of free VLPs in structuring the composition and functioning of the rhizosphere microbiome. This could be tested in microcosm experiments in which sterile soil is inoculated with a soil suspension from a native community [ 60 ].

## **The Role of Rhizosphere**



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**Bacteriophages in  
Plant Health**

The root microbiome (also called rhizosphere microbiome) is the dynamic community of microorganisms associated with plant roots. Because they are rich in a variety of carbon compounds, plant roots provide unique environments for a diverse assemblage of soil microorganisms,

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including bacteria,  
fungi and archaea.

## **Root microbiome - Wikipedia**

The rhizosphere is the interface between plant and soil, and functions as the first step of plant defense and root microbiome recruitment. It features a specialized microbial community, intensive microbe-plant and microbe-microbe interactions, and

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complex signal  
communication.

## **Soil indigenous microbiome and plant genotypes ...**

Introduction. Plants are colonized by an astounding number of (micro)organisms that can reach cell densities much greater than the number of plant cells (Fig. 1). Also, the number of microbial genes in the rhizosphere

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outnumbers by far the number of plant genes (Fig. 1). An overwhelming number of studies have revealed that many plant-associated microorganisms can have profound effects on seed ...

**rhizosphere  
microbiome:  
significance of plant  
beneficial ...**

Probiotic Diversity  
Enhances Rhizosphere

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Microbiome Function  
and Plant Disease  
Suppression Jie Hu,a,b  
Zhong Wei, aVille-Petri  
Friman,c Shao-hua Gu,  
Xiao-fang Wang,a Nico  
Eisenhauer,d,e Tian-jie  
Yang,a,b Jing Ma,a Qi-  
rong Shen, aYang-chun  
Xu, Alexandre  
Jousseta,b

## **Probiotic Diversity Enhances Rhizosphere Microbiome ...**

Surveying the plant

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Rhizosphere  
microbiome. The roots of land plants thrive in soil, one of the richest and most diverse microbial reservoirs on Earth. It has been estimated that a single gram of soil contains thousands of different bacterial species, not to mention other microorganisms such as archaea, fungi, and protists.

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