



Universiteit  
Leiden  
The Netherlands

## **Assemblage and functioning of bacterial communities in soil and rhizosphere**

Yan, Y.

### **Citation**

Yan, Y. (2016, June 8). *Assemblage and functioning of bacterial communities in soil and rhizosphere*. Retrieved from <https://hdl.handle.net/1887/40026>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/40026>

**Note:** To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/40026> holds various files of this Leiden University dissertation.

**Author:** Yan Y.

**Title:** Assemblage and functioning of bacterial communities in soil and rhizosphere

**Issue Date:** 2016-06-08

## **Acknowledgements**

The four years PhD journey is definitely one of the best periods in my life! I really enjoyed keeping on learning and the countless inspiring discussions.

Many thanks to the Plant Ecology Group. I enjoyed the time that we spent together. Special thanks to Karin who provided valuable help in collecting hundreds of kilos of soil and taught me so many experimental skills. Thanks to Tom who learned me a lot of statistics. Thanks to my roommates, Rocio and Saskia. It was a great pleasure to share my room with both of you and for the many discussions. Thanks to Dr. Wei who shared PhD journey with me in the past four years. Congratulations to my fellow graduates Xiaojie, Kaixuan, Yingjie, Suzanne, Yangan and Gang Chen; I wish you all well as you enter the next stage in your lives.

My thanks also go to the colleagues of the Department of Microbial Ecology of NIOO-KNAW. Everyone was always ready to help! Thanks for all the nice discussions during my presentations. Special thanks to the Kuramae research group. Learning Portuguese is one of my plans in the future. Special thanks also to our bioinformatician, Mattias. Without your help in analyzing hundreds of samples, I could not have finished the work. Agaat, Saskia and Iris are acknowledged for valuable help in my experiments. Thanks also to Gera, Chunxu, Yani, Mauricio, Lucas, Thiago, Manoeli, Marcio, Nori, Olaf, Irene, Viviane and Ruth, your kind efforts and interesting discussions always help me solving problems. I really appreciated that.

My family was always there for me and provided strength to get me through the tough times. Especially, thanks to my dear parents, no matter what my choice is, all your unconditional love and encouragement made me a strong person. 爸爸妈妈永远是我们的强大后盾和精神支柱!

Yihao, we got both Bachelor and Master degree together, and now, the PhD degree. I am ready to be always with you to see each beautiful step of life. Keep on dreaming.

Yan Yan

Leiden, April, 2016

## **Curriculum Vitae**

Yan Yan was born on January 10<sup>th</sup> 1986, in Shijiazhuang, Hebei province, China. In 2008 she obtained her Bachelor degree of Biological Engineering at the Agricultural University of Hebei, China. In the same year, she started her Master study at the College of Food Safety, Agricultural University of Hebei, China, supervised by Prof. dr. Hongtao Tian. From 2009-2011, she performed her Master internship in Prof. dr. Kunlun Huang's lab at the China Agricultural University in Beijing. She finished her Master thesis and obtained her master degree in 2011. The same year she started the PhD project described in this thesis at the Department of Microbial Ecology of the Netherlands Institute of Ecology (NIOO-KNAW) and at the Institute of Biology Leiden, Leiden University, under the supervision of Prof. dr. Hans van Veen, Prof. dr. Peter Klinkhamer and Dr. Eiko Kuramae.

## Publications

**Yan Y.**, De Hollander M., Kuramae E. E., Van Veen, J.A., Klinkhamer P.G.L. The effects of salicylic acid determine plant soil feedback. (*in preparation*)

**Yan Y.**, De Hollander M., Klinkhamer P.G.L., and Van Veen, J.A., Kuramae E. E. Soil characteristics determine the assemblage of bacterial communities in terrestrial ecosystems. (*Manuscript*)

**Yan Y.**, Kuramae E. E., De Hollander M., and Van Veen, J.A., Klinkhamer P.G.L. Functional genes rather than taxonomical composition of the rhizosphere bacterial community determine plant biomass in *Jacobaea vulgaris*. (*Manuscript*).

**Yan Y.**, Kuramae E. E., De Hollander M., Klinkhamer P.G.L., and Van Veen, J.A. (2016). Functional traits determine rhizosphere selection of bacterial communities. (*ISME Journal in revision*)

**Yan Y.**, Kuramae E. E., Klinkhamer P.G.L., and Van Veen, J.A. (2015). Revisiting the dilution procedure used to manipulate microbial biodiversity in terrestrial systems. *Applied and Environmental Microbiology*, 81 (13), 4246-4252.

**Yan Y.**, Xu W, Luo Y, Tian H. Study on the methods of extraction of *Pleurotus ostreatus* genomic DNA. *Science and Technology of Food Industry*, 2011 (09).

