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## Soil bacterial community assembly during succession

Jia, Xiu

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## About the author

Xiu Jia was born on 25 August 1990 in Hailar, Inner Mongolia, China. She graduated from Lanzhou University in 2012 with a BSc degree in Ecology. During her studies, she did two research projects supervised by Prof. Xiangwen Fang, i.e. the influence of drought on the growth of *Caragana* species and the influence of environmental factors on seed germination of *Caragana* species. In 2012, Xiu started her master's study with the supervision of Prof. Qibing Wang at the Institute of Botany, Chinese Academy of Sciences. She obtained her ME degree in bioengineering in 2016. During this period, she conducted two research projects: one assessing the effect of litter addition and nitrogen deposition on soil respiration rates in a field experiment at the Inner Mongolia Grassland Ecosystem Research Station; the second project investigating prokaryotic communities in the rhizosphere of dominant grasses along a 1200 km transect of temperate grasslands on Inner Mongolia Plateau. In September 2016, she began her doctoral research at the University of Groningen, with the supervision of Prof. Joana Falcao Salles, Dr. Francisco Dini-Andreote and Prof. Dick van Elsas, focused on elucidating the ecological mechanisms structuring microbial communities, especially for the members of the rare biosphere. She combined empirical data, state-of-art techniques and ecological models to address how the interplay of ecological processes governing the dynamics of microbial communities across different space and time scales. Currently, Xiu continues to work with Prof. Joana Falcao Salles at the University of Groningen as a post-doctoral researcher on the potatoMETAbiome, funded by the ERA-NET SusCrop.

## Publications

**Jia, X.**, Dini-Andreote, F., Falcao Salles, J. (2018). Community assembly processes of the microbial rare biosphere. *Trends in Microbiology*, 26(9): 738-747. **(Chapter 3)**

Dini-Andreote, F.\*, **Jia, X.\***, Falcao Salles, J. (2019). Molecular methods to study microbial succession in soil. In: *Microbial Ecology: Current advances from genomics, metagenomics and other 'omics'*, Caister Academic Press: Norfolk, UK, p. 27-44. **(Chapter 2)**

Cao, J.\*, Pang, S.\*, Wang, Q., Williams, M., **Jia, X.**, Dun, S., Yang, J., Zhang, Y., Wang, J., Lü, X., Hu, Y., Li, L., Li, Y., Han, X. (2019) Plant-bacteria-soil ecosystem response to frequency of simulated nitrogen deposition has implications for global change. *Functional Ecology*. doi:10.1111/1365-2435.

**Jia, X.**, Dini-Andreote, F., Falcao Salles, J. (2020) Comparing the influence of assembly processes governing bacterial community succession based on DNA and RNA data Authors. *Microorganisms*. 798 (8): doi:10.3390/microorganisms8060798 **(Chapter 4)**

Cao, J., **Jia, X.**, Pang, S., Hu, Y., Li, Y., Wang, Q. (2020) Functional structure, taxonomic composition and the dominant assembly processes of soil prokaryotic community along an altitudinal gradient. *Applied Soil Ecology*. (155) doi:10.1016/j.apsoil.2020.103647

Xing, J., **Jia, X.**, Wang, H., Ma, B., Falcao Salles, J., Xu, J. (2020). The legacy of bacterial invasions on soil native communities. *Environmental Microbiology*. doi:10.1111/1462-2920.15086

\* indicates both authors contributed equally to this work

## **Author affiliations**

### **Xiu Jia**

Microbial Ecology Cluster, Genomics Research in Ecology and Evolution in Nature (GREEN), Groningen Institute for Evolutionary Life Sciences (GELIFES), University of Groningen, Groningen, 9747AG, The Netherlands

E-mail: x.jia@rug.nl, xibeihenai@gmail.com

### **Joana Falcão Salles**

Microbial Ecology Cluster, Genomics Research in Ecology and Evolution in Nature (GREEN), Groningen Institute for Evolutionary Life Sciences (GELIFES), University of Groningen, Groningen, 9747AG, The Netherlands

E-mail: j.falcao.salles@rug.nl

### **Francisco Dini-Andreote**

Department of Plant Science, The Pennsylvania State University, Pennsylvania, University Park, PA 16801, USA; Huck Institutes of the Life Sciences, The Pennsylvania State University, University Park, PA 16801, USA

E-mail: andreote@psu.edu

### **Cas Cornet**

Institut français de recherche pour l'exploitation de la mer (ifremer)  
Université de Bretagne-Occidentale (UBO)  
Centre national de la recherche scientifique (CNRS)  
Laboratoire de Microbiologie des Environnements Extrêmes, UMR6197 (LM2E),  
F-29280 Plouzané, France

E-mail: cas.cornet@ifremer.fr