



Yvonne Boesch

Postdoctoral Scholar, Biology

Bio

BIO

Yvonne received her Bachelor's and Master's degrees from ETH Zurich and obtained her PhD in Biology, specializing in fungal denitrification, from the Swedish University of Agricultural Sciences (SLU) in Uppsala under the guidance of Prof. Sara Hallin.

In January 2025, she joined the Peay Lab as a postdoctoral scholar, supported by the Swedish Wallenberg postdoctoral scholarship program.

Yvonne is fascinated by the intricate interactions among microbes and their relationships with higher organisms, such as plants. Her research focuses on exploring how these complex relationships impact plant health, forest productivity, and resilience in the face of changing environments.

PROFESSIONAL EDUCATION

- BSc, Swiss Federal Institute of Technology, ETH Zurich , Biology (2014)
- MSc, Swiss Federal Institute of Technology, ETH Zurich , Cell Biology (2015)
- Ph.D., Swedish University of Agricultural Sciences , Biology (2022)

STANFORD ADVISORS

- Kabir Peay, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar: <https://scholar.google.com/citations?user=kzoq5yAAAAAJ&hl=de>
- ResearchGate: https://www.researchgate.net/profile/Yvonne-Boesch?ev=hdr_xprf
- Peay Lab: <https://mykophile.stanford.edu/>
- Wallenberg Research Link: <https://wallenbergresearchlink.stanford.edu/>

Publications

PUBLICATIONS

- **Little impact of tillage system on crop yield and soil properties in a 43-years old field experiment on a clay soil in humid continental climate** *SOIL & TILLAGE RESEARCH*
Keller, T., Etana, A., Bosch, Y., Hellstedt, E., Larsbo, M., Colombi, T., Hosseinpour-Ashenaabad, R., Sjulgard, H., Arrazola-Vasquez, E., Viketoft, M., Taylor, A., Myrbeck, A., Hallin, et al
2027; 265
- **Ecology of Rozellomycota in aquatic environments with differing redox conditions** *FUNGAL BIOLOGY*
Stuer-Patowsky, K., Galindo, L., Bosch, Y., Wurzbacher, C.
2025; 129 (8)

- **Distribution and Environmental Drivers of Fungal Denitrifiers in Global Soils** *MICROBIOLOGY SPECTRUM*
Bosch, Y., Pold, G., Saghai, A., Karlsson, M., Jones, C. M., Hallin, S.
2023; 11 (3): e0006123
- **Minimizing tillage modifies fungal denitrifier communities, increases denitrification rates and enhances the genetic potential for fungal, relative to bacterial, denitrification** *SOIL BIOLOGY & BIOCHEMISTRY*
Bosch, Y., Jones, C. M., Finlay, R., Karlsson, M., Larsbo, M., Keller, T., Hallin, S.
2022; 170
- **Dynamics of the Apple Fruit Microbiome after Harvest and Implications for Fruit Quality** *MICROORGANISMS*
Bosch, Y., Britt, E., Perren, S., Naef, A., Frey, J. E., Buhlmann, A.
2021; 9 (2)
- **Quantitative Selection Analysis of Bacteriophage ϕ CbK Susceptibility in *Caulobacter crescentus*** *JOURNAL OF MOLECULAR BIOLOGY*
Christen, M., Beusch, C., Boesch, Y., Cerletti, D., Flores-Tinoco, C., Del Medico, L., Tschan, F., Christen, B.
2016; 428 (2): 419-430