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The rhizomicrobiome of Sorghum ; impact on plant growth and stress tolerance

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About the author

Thiago Roberto Schlemper was born on 20th of November 1981 in Rio do Sul, Santa Catarina, Brazil. In 2004 he obtained his Bachelor degree in Ecology at the University for Development of the Itajaí High Valley (UNIDAVI) in Ituporanga, Santa Catarina, Brazil. In 2005 he worked with Faunistic and Floristic Inventory at the Amazon Rainforest. In 2009 he started to give lectures at Leonardo da Vinci's Educational Center (UNIASSELVI) in Indaial, Santa Catarina, Brazil. In the 2011 he started his Master in Environmental engineering at Regional University of Blumenau (FURB) in Blumenau, Santa Catarina, Brazil. During his master he studied the on-farm production of arbuscular mycorrhizal fungi inocula using lignocellulosic agrowastes under the supervision of Dr. Sidney Luiz Stürmer. In 2013 he obtained his M.Sc. degree and moved to The Netherlands to start his PhD project described in this thesis at the Department of Microbial Ecology of the Netherlands Institute of Ecology (NIOO-KNAW) and the Institute of Biology at Leiden University under the supervision of Prof. Dr. Hans van Veen, Prof. Dr. Jos Raaijmakers and Dr. Eiko Kuramae.



List of Publications

Schlemper, T. R., & Stürmer, S. L. (2014). On farm production of arbuscular mycorrhizal fungi inoculum using lignocellulosic agrowastes. *Mycorrhiza*, 24(8), 571-580.

Schlemper, T. R., Leite, M. F., Lucheta, A. R., Shimels, M., Bouwmeester, H. J., van Veen, J. A., and Kuramae, E. E. (2017). Rhizobacterial community structure differences among sorghum cultivars in different growth stages and soils. *FEMS Microbiology Ecology*, 93(8).

Schlemper, T. R., van Veen, J. A., & Kuramae, E. E. (2017). Co-Variation of Bacterial and Fungal Communities in Different Sorghum Cultivars and Growth Stages is Soil Dependent. *Microbial ecology*, 1-10.

Schlemper, T. R., Pulcrano, A.S., de Souza, F.A., Magalhães, P.C., Van Veen, J.A., Raaijmakers, J. and Kuramae, E.E. (2019). Impact of the rhizoplane bacterial community composition on drought tolerance of sorghum bicolor (Chapter 4, to be submitted)

Schlemper, T. R., Dimitrov, M. R., Silva Gutierrez, F. A.O., Van Veen, J.A., da Silveira A. P. D., Kuramae, E. E. (2018). Effect of *Burkholderia tropica* and *Herbaspirillum frisingense* strains on sorghum growth is plant genotype dependent. *PeerJ*, 6:e5346

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