



NAME: Rodrigo Mendes

INTITUTION / FUNCTION:

Senior Researcher - Embrapa Environment, Cooperación Brasileira de Investigación Agrícola, Ministerio de Agricultura, Ganadería y Suministro de Alimentos, Brasil.

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BIOGRAFÍA PROFESIONAL:

Rodrigo Mendes is a visiting scientist at Berkeley Lab and research at Embrapa Environment and professor in the Agricultural Microbiology Graduate School at the University of São Paulo. Former Head of Research and Development Department at Embrapa Environment (2015 to 2022). Graduated in Agronomic Engineering with Ph.D. in Genetics and Plant Breeding from the University of São Paulo, Brazil. He worked as a researcher at CanaVialis/Monsanto and at Wageningen University (NWO Postdoctoral Fellow). He was a visiting researcher at the University of Lausanne, Switzerland, at Lawrence Berkeley National Lab, United States, at Rothamsted Research, United Kingdom, and at the Isaac Newton Institute at Cambridge University, United Kingdom. Member of the scientific advisory board of the Promise Program (NIOO-KNAW), Bill & Melinda Gates Foundation, and executive secretary of the International Research Program "Back to the Roots". His research focus on soil and plant microbial communities to understand how the rhizosphere microbiome promotes plant growth and protection.

STUDIES

BSc in Agronomy of the University of Sao Paulo (BR)

PhD en Genetics and Plant Breeding of the University of Sao Paulo (BR) and Wageningen University (NL)

RESEARCH INTERESTS

Our research involves using molecular techniques and next-generation sequencing to investigate the ecological aspects of microbes interactions, with a particular focus on understanding how rhizosphere microbiomes contribute to the support and sustenance of plant life and development.

RELEVANT PUBLICATIONS

PÉREZ-JARAMILLO, JE; CARRIÓN, VJ; BOSSE, M; FERRÃO, LFV; DE HOLLANDER, M; GARCIA, AAF; RAMÍREZ, CA; MENDES, R; RAAIJMAKERS, JM. Linking rhizosphere microbiome composition of wild

and domesticated *Phaseolus vulgaris* to genotypic and root phenotypic traits. *The ISME Journal* (IF 9.302), 2015.

VAN DER VOORT, M; KEMPENAAR, M; VAN DRIEL, M; RAAIJMAKERS, JM; MENDES, R. Impact of soil heat on reassembly of bacterial communities in the rhizosphere microbiome and plant disease suppression. *Ecology Letters* (IF 10.689), 2016.

MENDES, R; RAAIJMAKERS, JM. Cross-kingdom similarities in microbiome functions. *The ISME Journal* (IF 9.302), 2015.

CHAPELLE, E; MENDES, R. et al. Fungal invasion of the rhizosphere microbiome. *The ISME Journal* (IF 9.302), 2015.

PEREZ-JARAMILLO, JE; MENDES, R. et al. Impact of plant domestication on rhizosphere microbiome assembly and functions. *Plant Molecular Biology* (IF 4,257), 2015.

MENDES, R. et al. The rhizosphere microbiome: significance of plant beneficial, plant pathogenic, and human pathogenic microorganisms. *FEMS Microbiology Reviews* (IF 13,244), 2013

MENDES, R. et al. Deciphering the Rhizosphere Microbiome for Disease-Suppressive Bacteria. *Science* (IF 33,611), 2011.