

**NAME:**

Juan Esteban Pérez Jaramillo

INSTITUTION / FUNCTION:

University of Antioquia/Assistant Professor

E-mail: juan.perez@udea.edu.co

Short Professional Biography:

Current Position: Assistant Professor University of Antioquia

2019 - Current. Coordinator of the research unit for Bioprospecting and Microbiome Studies. Program for the Study and Control of Tropical Diseases-PECET, University of Antioquia. Medellín, Colombia.

Studies:

2014-2019. PhD in Biological Sciences. Leiden University, Netherlands Institute of Ecology, The Netherlands.

2011-2012. MSc in environmental Agrobiology. Public University of Navarra, University of the Basque Country, Spain.

2001-2008. Undergraduate in Biology. Institute of Biology, University of Antioquia. Medellín, Colombia.

Research interests

Juan's main research interests are bioprospecting of bacteria and bacteriophages for biological control, molecular diagnosis of plant pathogens and the study of microbiomes using metagenomic approaches.

Relevant publications

Vargas Hoyos HA, Barros Chiaramonte J, Barbosa-Casteliani AG, Morais JF, **Pérez-Jaramillo JE**, Santos SN, Nascimiento Queiroz SC et al. 2021. An Actinobacterium strain from soil of Cerrado promotes phosphorus solubilization and plant growth in soybean plants. *Frontiers in Bioengineering and Biotechnology* 9: 579906.

Rossmann M, **Pérez-Jaramillo JE**, Kavamura VN, Chiaramonte JB, Dumack K, et al. 2020. Multitrophic interactions in the rhizosphere microbiome of wheat: from bacteria and fungi to protists. *FEMS Microbiology Ecology* 96, fiae032.

Pérez-Jaramillo JE, de Hollander M, Ramírez CA, Mendes R, Raaijmakers JM, Carrión VJ. 2019. Deciphering the microbiome assembly of wild and modern common bean (*Phaseolus vulgaris*) grown in native and agricultural soils from Colombia. *Microbiome* 7:114.

Carrión VJ, **Pérez-Jaramillo JE**, Cordovez V, de Hollander M, Tracanna V, Mendes LW et al. 2019. Pathogen-induced activation of disease suppressive functions in the endophytic root microbiome. *Science*. 366 (6465), 606-612.

Hannula, SE, Ma H, **Pérez-Jaramillo JE**, Pineda, A & Bezemer TM. 2019. Structure and ecological function of the soil microbiome affecting plant-soil feedbacks in the presence of a soil-borne pathogen. *Environmental Microbiology* 22: 660–676.

Pérez-Jaramillo JE. 2019. Impact of plant domestication on spermosphere and rhizosphere microbiome composition. Doctoral Thesis. ISBN: 978-9-4633-2475-5. <https://hdl.handle.net/1887/70478>

Pérez-Jaramillo JE, Carrión VJ, de Hollander M, Raaijmakers JM. 2018. A walk on the wild side of plant microbiomes. *Microbiome*. 6:143.

Pérez-Jaramillo JE, Carrión VJ, Bosse M, Ventorim Ferrão LF, de Hollander M, Franco Garcia AA, et al. 2017. Linking rhizosphere microbiome composition of wild and domesticated *Phaseolus vulgaris* to genotypic and root phenotypic traits. *ISME Journal* 11, 2244–2257.

Pérez-Jaramillo JE, Mendes R, Raaijmakers JM. 2016. Impact of plant domestication on rhizosphere microbiome assembly and functions. *Plant Molecular Biology* 90: 635–644.

Calleja-Cervantes ME, Irigoyen I, Gorrioz C, **Pérez-Jaramillo JE**, Irañeta J, Amorena A, Aparicio-Tejo PM, Menéndez S. 2013. Twenty years of continued application of treated sewage sludge: nitrous oxide emissions induced in agricultural soils. Conference paper. Ramiran. p.S2.29. ISBN: 978-2-7380-1337-8.

Suárez AM, Ramírez EM, **Pérez-Jaramillo JE**, Cardona NL, Calle JJ, Ramírez CA. 2008. Poblaciones de bacterias totales y potencialmente deletéreas asociadas