

Pablo CARRIL VAGLINI

Rua Escola do Exercito 30
1150-144, Lisboa, PT
Mobile pone: (+34)619442980
Personal e-mail: paoloypunto_3@hotmail.com
ORCID ID: <https://orcid.org/0000-0001-5612-1053>

Education

- 2017-currently **Phd Program Applied and Environmental Microbiology**, Universidade de Lisboa, Lisboa, Portugal.
Workload: 240 ECTS **Duration:** 4 years
- 2014-2016 **Master's degree in Environmental Biology**, Utrecht University, Utrecht, The Netherlands.
Workload: 120 ECTS **Duration:** 2 years **Grade:** 7.72 out of 10
- 2008-2014 **Degree in Biology; track in Plant Physiology**, Universidad Autónoma de Madrid, Madrid, Spain.
Workload: 240 ECTS **Duration:** 4 years **Grade:** 6.74 out of 10

Research training

- 3/2017 – currently **Doctoral Programme in Applied and Environmental Microbiology**
Plant-Soil Ecology Group. Center for Evolution & Environmental Changes, Lisboa, Portugal
Determination of the microbial and plant metabolic pathways that are activated prior to the establishment of symbiosis. Assessment of defense priming effect against pathogens in wheat plants induced by endophytic and associative diathotrophs.
- 1/2016 - 6/2016 **Master thesis II**
Plant-Microbe Interactions Group. Estación Experimental del Zaidín, Granada, Spain
Construction of a transposant library in both *Rhizobium etli* and *Pseudomonas syringae* DC3000 strains and subsequent analysis by biochemical methods using colony filtration blotting and dot blot analysis in order to identify novel c-di-GMP binding proteins.
- 10/2016 - 12/2016 **Master Intern**
Ecology & Biodiversity Group. Utrecht University, Utrecht, The Netherlands
Determining the effects of soil protozoa on plant nutrient assimilation. Measurement of plant nutrient concentration using ICP-MS. Quantification of bacterial and fungal DNA by q-RT-PCR in soils with presence or absence of protozoa.
- 9/2014 - 06/2015 **Master Thesis**
Plant-Microbe Interactions Group. Utrecht University, Utrecht, The Netherlands
Determining the role of the alkaline protease A (AprA) in the evasion/suppression of root immunity by several beneficial and pathogenic *Pseudomonas* strains. Analysis by genetic and physiological means using classical molecular biology techniques and GUS reporter gene assays.

Undergraduate thesis

Plant Physiology Department. Universidad Autónoma de Madrid, Madrid, Spain

9/2013 – 6/2014 Determining the role of ethylene in the onset of heavy metal-induced oxidative burst in *Medicago Sativa* seedlings. Farmacological assays using the ethylene perception blocker 1-MCP and subsequent analysis by confocal microscopy of cellular ROS production and necrotic cells.

Summer Internship

Plant Development Group, Centro de Biotecnología y Genómica de Plantas, Madrid, Spain

7/2013 Optimization of a protocol to characterize the DNA methylation patterns in transgenic lines of *Populus tremula* x *Populus alba* using confocal immunodetection. Training in specimen processing for microscopy, sectioning, immunofluorescence and confocal microscopy.

Compulsory subject (3rd year of Bachelor)

10/2012 – 4/2013 Advanced Methods and Techniques in Biology: Plant Physiology

Other skills

Languages

Spanish: Native
Italian: Native
English: TOEFL iBT: grade 96 (CEFR level: C1)
Portuguese: fluent understanding

Computer skills

Office Word, Excel, Power Point
SPSS
Image processing Fiji, ImageJ
R programming: some usage during the 3 month internship at Utrecht University.

Manuscripts

The early oxidative stress induced by mercury and cadmium is modulated by ethylene in *Medicago sativa* seedlings. María Laura Flores-Cáceres, Cristina Ortega-Villasante, Paolo Carril-Vaglini, Juan Sobrino-Plata, Luis E. Hernández (submitted)

Ecophysiological changes in resting plants exposed to iron stress: the role of symbionts. C. Colodete, P. Carril, J. Melo, C. Cruz, A. Ramos. To be submitted to: Land degradation and Development

Grants/Funding

1/2016 - 6/2016 Erasmus + grant for traineeship at Estación Experimental el Zaidín.

10/2016 - 12/2016 Short employment contract as a research assistant in the Ecology and Biodiversity Group at Department of Biology, Faculty of Sciences, Utrecht University (NWO Groen, BB.000444.1).

10/2017 - 12/2021 Doctoral FCT grant PD/BD/135249/2017

Conferences and workshops

- 3/2015 NWO-ALW meeting “Experimental Plant Sciences”, Lunteren, The Netherlands
- 6/2015 10th International PGPR Workshop (June 2015). Liège, Belgium.

References

Peter Bakker
Assistant professor, Utrecht University
Phone number (department) +31 30 253 4230
e-mail: P.A.H.M.Bakker@uu.nl

Alexandre Jousset
Assistant Professor, Utrecht University
Phone number (direct) +31 30 253 6877
e-mail: A.L.C.Jousset@uu.nl