

Carla Maria Alexandre PINHEIRO

Assistant Professor FCT-NOVA

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ResearcherID (WoK): [A-4053-2008](https://orcid.org/0000-0002-7799-0183) (> 5700 citations; h-index 23)

Scopus author ID: [54402224100](https://orcid.org/0000-0002-7799-0183) (> 6550 citations; h-index 25)

[Google Scholar](https://scholar.google.com/citations?user=cm.pinhoiro) (> 10300 citations; h-index 29)

<http://orcid.org/0000-0002-7799-0183>

Date and place of Birth: 18.12.971, Huambo (Angola)

Nationality: Portuguese



CURRENT POSITIONS

2012 to date. Assistant Professor at FCT-NOVA at the Life Sciences Department at NOVA School of Science and Technology from the Nova University of Lisbon.

2020 to date. Independent Researcher at the Applied Molecular Biosciences Unit (UCIBIO).

OTHER CURRENT ACTIVITIES

2021 to date. Chair of the European Plant Phenotyping-Research Infrastructure that aims to enable researchers to use facilities, resources and services for plant phenotyping across Europe. EMPHASIS-PREP is supported by the European Union (Grant Agreement: 739514).

2020 to date. Coordinator of the EMPHASIS-PT consortium that congregates twelve Portuguese Institutions.

2017 to date. Member of the EMPHASIS support group (European Infrastructure for Plant Phenotyping).

2015 to date. Editorial Board of Theoretical and Experimental Plant Physiology, Frontiers in Plant Science and Journal of Plant Growth Regulation.

2015 to date. Involved in national and international initiatives of Science Communication and Scientific Culture Promotion.

PREVIOUS POSITIONS

2014-2018. INDEPENDENT RESEARCHER AT ITQB (INSTITUTO DE TECNOLOGIA QUÍMICA E BIOLÓGICA).

2008-2013. CIÊNCIA2007 JUNIOR RESEARCHER POSITION AT ITQB.

2004-2008. POSTDOC POSITION AT ITQB.

1998-2004. PHD STUDENT AT ITQB.

1995-1998. RESEARCH STUDENT AT ITQB.

1994. RESEARCH INTERNSHIP AT UNIVERSITÄT ZU KÖLN

DOMAIN OF SPECIALISATION

PLANT BIOCHEMISTRY AND PHYSIOLOGY

ACADEMIC DEGREES

2004. PhD in Biology, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa.

1998. Master of Science in Plant Physiology and Biochemistry, Universidade de Lisboa and Universidade Técnica de Lisboa.

1994. Degree in Biology, with a major in Plant Biology, Universidade de Lisboa.

RESEARCH INTERESTS

Evaluation of seed development, yield and nutritional quality as affected by multiple stressors by phenotyping and biochemical tools.

Profiling value-added bioactive compounds from plant-derived resources for biotechnological and therapeutical applications.

Multiscale approach making use of biochemical and omic's tools.

Evaluation of carbon metabolism in plants (photosynthesis, primary metabolism, cellular distribution) affected by multiple stressors.

FUNDING RECORD (NATIONAL AND EUROPEAN). Coordinator and Principal Investigator of four projects; Team member and/or activity responsible in 11 projects; Coordinator of one Mobility project and three bilateral actions; Team member in one Science Education project.

SUPERVISION OF STUDENTS AND POST-DOCTORAL RESEARCHERS. Supervision and Co-Supervision of nine graduate students (MSc, BSc) under project fellowships, twenty-four Undergraduate students, one Post-doc researcher, two Master student. Supervision and Co-Supervision of nine PhD students.

SELECTED SCIENCE COMMUNICATION AND SCIENTIFIC CULTURE PROMOTION

2020. "[Manual de Atividades para as Ciências Experimentais](#)", a manual for teachers of the several cycles (elementary to high school years) involved in Science, Technology, Engineering and Mathematics subjects (in Portuguese).

2020. **Pinheiro C.** "[Why Manuela Chaves decided to become a scientist](#)". Theoretical and Experimental Plant Physiology 32, 1-4. doi 10.1007/s40626-020-00169-8

2018. "Biodiversidade Vegetal à Mesa" (*Plant biodiversity at our table*). XXI Encontro Nacional de Estudantes de Biologia.

2018. "[Etnobotânica - Plantas & Património Cultural](#)". Etnobotany Exhibition at the FCT-NOVA library. Curators: **Carla Pinheiro** and Luís Mendonça de Carvalho.

PUBLICATION LIST (Peer Reviewed, since 2016)

1. Guerra-Guimarães L, **Pinheiro** C, Oliveira ASF, Mira-Jover A, Valverde J, Guedes FAF, Azevedo H, Várzea V, Pajares AJM. 2023. [The chloroplast protein HCF164 is predicted to be associated with *Coffea* S_H9 resistance factor against *Hemileia vastatrix*](#). Scientific Reports 13, 16019. doi 10.1038/s41598-023-41950-4
2. **Pinheiro** C, Emiliani G, Marino G, Fortunato AS, Haworth M, De Carlo A, Chaves MM, Loreto F, Centritto M. 2023. ["Metabolic background, not photosynthetic physiology, determines drought and drought recovery responses in C3 and C2 Moricandias"](#). International Journal of Molecular Sciences 24, 4094. doi 10.3390/ijms2404494
3. **Pinheiro** C, Soares David T, Batista P, Guerra-Guimarães L. 2022. ["Mediterranean woody agroecosystems in a warming and drier climate: the importance of knowledge-based management"](#). Flora 291, 152070 doi 10.1016/j.flora.2022.152070
4. Possa KF, Silva JA, Resende MLV, Tenente RE, **Pinheiro** C et al. 2020. ["Primary metabolism is distinctly modulated by plant resistance inducers in *Coffea arabica* leaves infected by *Hemileia vastatrix*"](#). Frontiers in Plant Science doi: 10.3389/fpls.2020.00309
5. Costa JM, Marques da Silva J, **Pinheiro** C et al. 2019. ["Opportunities and limitations of crop phenotyping in Southern European countries"](#). Frontiers in Plant Science 10, 1125 doi 10.3389/fpls.2019.01125
6. **Pinheiro** C, Weinkoop S, Almeida JMF et al. 2019 ["Phellem cell-wall components are discriminants of cork quality in *Quercus suber*"](#). Frontiers in Plant Science 10, 944 doi 10.3389/fpls.2019.00944
7. Teixeira RT, Fortes AM, Bai H, **Pinheiro** C, Pereira H. 2018. ["Transcriptional profiling of cork oak phellogenetic cells isolated by laser microdissection"](#). Planta 247, 317-338 doi 10.1007/s00425-017-2786-5
8. Ribeiro IC, Leclercq CC, Simões N, Toureiro A, Duarte I, Freire JB, Chaves MM, Renaut J, **Pinheiro** C. 2017. ["Identification of chickpea seed proteins resistant to simulated *in vitro* human digestion"](#). Journal of Proteomics 169, 143-52 doi 10.1016/j.jprot.2017.06.009
9. Guerra-Guimarães L, **Pinheiro** C, Chaves I, Barros DR, Ricardo CP. 2016. ["Protein dynamics in the plant extracellular space"](#). Proteomes 4, 22 doi 10.3390/proteomes4030022
10. Jardak-Jamoussi R., Zarrouk O, Ben Salem A, Zoghalmi N, Mejri S, Gandoura S, Khiari B, Mliki A, Chaves MM, Ghorbel A, **Pinheiro**, C. 2016. ["Overexpressing *Vitis vinifera* YSK2 dehydrin in tobacco improves plant performance"](#). Agricultural Water Management 164, 176-189 doi10.1016/j.agwat.2015.09.023

Monte da Caparica, March 2, 2024

