

CURRICULUM VITAE

Personal Data

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[ResearchGate Profile](#)

Academic Qualifications

- 2007 PhD (*Doutoramento*) on Biology/Molecular Biology – University of Algarve.
- 2000 Graduate Degree (*Licenciatura*) on Biotechnological Engineering (5 years programme, pre-Bologna Process) – University of Algarve.

Previous and Current Scientific and Professional Activities

- 2022- (April 2022 to present). Researcher in the BiodivERsA project: RESTORESEAS - Marine forests of animals, plants and algae: nature-based tools to protect and restore biodiversity (co-financed by the Technology Agency of Czech Republic).
- 2022- (March 2022 to present). Researcher in the PROMETEO Project (Un village transfrontalier: pour protéger les cultures arboricoles méditerranéennes en partageant les connaissances). Associated partner. Funded by the Programme IEV CT Italie-Tunisie 2014-2020 and co-funded by the European Commission.
- 2016- (December 2016 to present) Senior Researcher at the Phytophthora Research Centre, Faculty of Forestry and Wood Technology at Mendel University in Brno, Czech Republic (Project registration no. CZ.02.1.01/0.0/0.0/15_003/0000453; co-financed by the Czech Ministry for Education, Youth and Sports and the European Regional Development Fund). Academic position since July 2018.
- 2016 (April to November) Researcher at Phytophthora Research and Consultancy, (Rosenheim, Germany).
- 2015-2019 (November 2015 to October 2019): Researcher of Horizon 2020 project POnTE - Pest Organisms Threatening Europe. Funded by the European Commission.
- 2014-2016 Collaborator of MeditBio - Centre for Mediterranean Bioresources and Food, Laboratory of Molecular Biotechnology and Phytopathology, University of Algarve.
- 2014-2016 Post-Doctoral Fellowship in the BiodivERsA project: RESIPATH - Responses of European Forests and Society to Invasive Pathogens (BIODIVERSA/0002/2012, co-financed by the Portuguese Foundation for Science and Technology).
- 2013-2014 Researcher of the project “Screening of Asian oak species for potential resistance to *Phytophthora* spp.” (EXPL/AGR-FOR/1304/2012, funded by the Portuguese Foundation for Science and Technology).
- 2013 Researcher at Phytophthora Research and Consultancy (Rosenheim, Germany).
- 2012-2013 Researcher of the project “An integrated approach to identify stress-related regulatory genes in cork oak” (PTDC/AGR-GPL/118505/2010, funded by the Portuguese Foundation for Science and Technology).

- 2010-2012 Post-Doctoral Fellowship from the Foundation for Science and Technology with the work intituled “Triangular interaction *Phytophthora cinnamomi*/*Quercus suber*/*Pisolithus tinctorius*: studies on potential protective effects of the symbiont against root infection by the pathogen and expression of host defense genes” (Ref. SFRH/BPD/63213/2009, funded by the Portuguese Foundation for Science and Technology), under the scientific guidance of Professor Maria Salomé Pais (BIOFIG), Dr. Mónica Sebastiana (BIOFIG) and Professor Alfredo Cravador (IBB/CGB, UAIG).
- 2010 Researcher of the project “Cork Oak ESTs Consortium - Biotic stress: roots response to infection by *Phytophthora cinnamomi*” (SOBREIRO/0014/2009, funded by the Portuguese Foundation for Science and Technology).
- 2009-2013 Researcher of the project “Production of active compounds against *Phytophthora cinnamomi* by *Phlomis purpurea*. Metabolite and transcript profiling (PTDC/AGR-CFL/100217/2008, funded by the Portuguese Foundation for Science and Technology).
- 2009-2012 Member of “Working Group 2 - Host pathogen interactions” and “Working Group 4 - Management and Control” of COST-FPS Action FP0801 “Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe”.
- 2008-2013 Member of the Research Team of Associated Laboratory IBB/CGB (Institute for Biotechnology and Bioengineering / Centre of Genomics and Biotechnology - *Plant and Animal Genomic Group*).
- 2007-2010 Researcher of the project “Identification, characterization and role of molecular factors associated with the mechanisms of infection of *Fagaceae* species by *Phytophthora cinnamomi*” (PTDC/AGR-AAM/67628/2006, funded by the Portuguese Foundation for Science and Technology).
- 2006-2009 (July 2006 to December 2009) Researcher of the project "Characterization of cork and holm oaks tolerant to the decline and evaluation of biological control measures" (Program of the Permanent Forestry Fund, Area 5 – Actions of Applied Research, Demonstration and Experimentation, Portugal).
- 2006-2009 Lecturer at Jean Piaget Institute / Superior School of Health of Silves. Responsible of the subjects "Pharmaceutical Botany" (academic years 2005/2006, 2006/2007 and 2008/2009) and "Pharmaceutical Biotechnology" (academic year 2006/2007) for the Master degree in Pharmacy. Responsible of the subject "Metabolism and Biochemistry of Nutrients" (academic years 2006/2007 and 2007/2008) for the Master degree in Clinical Analysis and Public Health.
- 2005 (May to September) Research Technician at the Laboratories of Cellular and Molecular Biology of the Transborder University Institute of Science, Culture and Environment (ITUCCA, *Instituto Transfronteiriço Universitário de Ciência, Cultura e Ambiente* - University of Algarve).
- 2005 Lecturer of the subject "Laboratory of Genetic Engineering" for the degree in Biotechnological Engineering at the Faculty of Engineering and Natural Resources, (University of Algarve) (academic year 2004/2005).
- 2005 (January and February) Researcher of the LEADER project “Comparative study of 2 methods of application and 3 chemical products to control the decline disease of the cork oak”.
- 2004 (July to December) Researcher of the INTERREG III A (Montado/Dehesa SP4.E1) project "Development of an information system for environmental and economic management of the ecosystem *dehesa/montado* in Extremadura and Alentejo”.

- 2000-2004 Doctoral Fellowship from the Portuguese Foundation for Science and Technology (SFRH/BD/1249/2000). PhD student at the Faculty of Engineering and Natural Resources (University of Algarve), with the thesis entitled "Study of the biological role of *Phytophthora cinnamomi* elicitors and their involvement in the infectious process", under the scientific guidance of Professor Alfredo Cravador.
- 1998-2000 Young Researcher Fellowship from the Portuguese Foundation for Science and Technology (PRAXISXXI/BICJ/17089/98). Work carried out on the detection of *Phytophthora cinnamomi* directly from soil by a specific molecular method and early studies on the biological function of *P. cinnamomi* elicitors.
- 1998-1999 Research entitled "Detection of *Phytophthora cinnamomi* directly from soil by a specific molecular method", under the scientific guidance of Professor Alfredo Cravador. (Work included on the project "Study of the involvement of *Phytophthora cinnamomi* in the decline of *Quercus suber*", (PRAXISXXI/3/3.2/2/FLOR/2112/95, funded by the Portuguese Foundation for Science and Technology). Scientific research included as part of the programme to obtain the Graduate Degree on Biotechnological Engineering.
- 1997-1998 Elaboration (in work group system) of an industrial project entitled "Production of Penicillin G potassium" (industrial plan included as part of the programme to obtain the Graduate Degree on Biotechnological Engineering).
- 1993-1998 Frequency and completion of the theoretical and practical subjects of the Graduate Degree on Biotechnological Engineering.

Specialized courses:

- 2011 Phytopathology: "Recognition of Disease Symptoms, Isolation and Identification of *Phytophthora* species", IBB-CGB/University of Algarve, 25 to 29 July.
- 2011 Bioinformatics: "Automatic Functional Annotation and Data Mining", Instituto Gulbenkian de Ciência, Oeiras, 24 and 25 February (22h).
- 2009 Bioinformatics: "Microarray data analysis using GEPAS and Babelomics", Instituto Gulbenkian de Ciência, Oeiras, 06 to 08 May (22h).
- 2009 "Pedagogic Training Course for Trainers", Valor por Medida (96 h). Professional Aptitude Certificate No. 506603/2009 EDF DG.

Current research interests:

Genomic basis of aggressiveness and invasiveness of *Phytophthora* spp. and of susceptibility and resistance of tree species.

Detection and description of new *Phytophthora* spp. and other oomycetes in Europe and other continents; assessment of their potential host ranges among European tree species.

Early detection of *Phytophthora* infected plants by analysis of volatile organic compounds emission.

Potential biological activities of *Phytophthora* extracts.

Halophytophthora spp.: biodiversity, ecological roles and screening for high added-value compounds.

Scientific research in foreign countries:

- 2019: Portugal** (project Phytophthora Research Centre: survey of *Phytophthora* and *Halophytophthora* diversity in estuarine ecosystems).
- Indonesia (Kalimantan, Sumatra, Java, Sulawesi)** (project Phytophthora Research Centre: survey of *Phytophthora* species in natural forests and riparian ecosystems).
- 2018: Indonesia (Sumatra)** (project Phytophthora Research Centre: survey of *Phytophthora* species in natural forests and riparian ecosystems).
- Japan** (project Phytophthora Research Centre: survey of *Phytophthora* species in natural forests and riparian ecosystems).
- 2017: Japan** (project Phytophthora Research Centre: survey of *Phytophthora* species in natural forests and riparian ecosystems).
- 2016: Vietnam** (project POnTE: survey of *Phytophthora* species in natural forests and riparian ecosystems).
- 2015: Italy** (diversity and impact of *Phytophthora* species in forest and riparian ecosystems in Sicily).
- 2014: Chile** (survey of *Phytophthora* species in natural forests and riparian ecosystems in Valdivia).
- 2013: Taiwan** (project QuerResist: search for *Phytophthora*-resistant Fagaceae species and survey of *Phytophthora* species in natural forest and riparian ecosystems).
- Italy** (diversity and impact of *Phytophthora* species in forest and riparian ecosystems in Sicily).
- 2002: Belgium** (internship about real-time mRNA quantification experiments (Université Libre de Bruxelles, Laboratoire de Génétique Appliquée, Institut de Biologie Moléculaire et Médicale, Gossielies) under the guidance of Prof. Alex Bollen, Dr. Edmond Godfroid and Dr. Benoit Hennuy).
- 2001: France** (internship about production of protoplasts and genetic transformation of *Phytophthora* spp. (UMR 5546 UPS-CNRS, Pôle de Biotechnologie Végétale, Castanet-Tolosan, Toulouse) under the guidance of Prof. Arnaud Bottin).

Symposia and Congress Sessions Convened or Chaired

- Member of the Organizing Committee of the “21st Annual Meeting of the Oomycete Molecular Genetics Network”, Brno (Czech Republic), August 22-25th 2022.
- Member of the Organizing Committee of the “2nd Working Groups Meeting (WG3. Diagnostics and WG4. Management and Control) of the COST-FPS Action FP0801 (Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe)”, Faro (Portugal), September 10-12th 2009.

Language skills:

	Reading	Writing	Conversation
Portuguese	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
English	<i>Excellent</i>	<i>Good</i>	<i>Good</i>
French	<i>Good</i>	<i>Good</i>	<i>Good</i>
Castilian	<i>Excellent</i>	<i>Elementary</i>	<i>Good</i>

Other skills:

Informatics' knowledge in Microsoft Office; QGIS (basic user); Bioinformatics tools (basic user).

Driving License No: FA-114874, DGV Faro.

Other non-scientific activities

1992-1998 Part time job on the company "AS Epaminondas, Central Hortofrutícola e Produtos de 4ª Gama". Work in the secretariat/accounting and warehouse management (purchases and sales) departments.

Publications

Publications, citations, *h* Index, *g* Index and *i10* Index updated on 31/10/2022.

- 2 dissertations.
- 1 book chapter.
- 33 scientific articles published in peer reviewed journals: 32 articles indexed to Web of Science (WoS) Core Collection and 33 articles indexed to Scopus and Google Scholar.
- ❖ 895 citations in Web of Science; average citations per item 27.1
h Index = 15; *g* Index = 25; *i10* Index = 15
- ❖ 948 total in Scopus; average citations per item 27.9
h Index = 16; *g* Index = 30; *i10* Index = 20
- ❖ 1306 citations in Google Scholar; average citations per item 34.9
h Index = 17; *g* Index = 34; *i10* Index = 24

Dissertations

- Horta, M. (2006). Estudo do papel biológico das elicinas de *Phytophthora cinnamomi* e do seu envolvimento no processo infeccioso (Study of the biological role of *Phytophthora cinnamomi* elicins and their involvement in the infectious process). *PhD Thesis*, University of Algarve, 265 pp.
- Horta, M. (2000). Detecção de *Phytophthora cinnamomi* directamente a partir do solo por um método molecular específico (Detection of *Phytophthora cinnamomi* directly from the soil by a specific molecular method). *Internship report of the degree in Biotechnology Engineering*, University of Algarve, 66 pp.

Chapters in Books

- Pérez-Sierra, A., Horta Jung, M., Jung, T. (2022). Survey and monitoring of *Phytophthora* species in natural ecosystems: Methods for sampling, isolation, purification, storage, and pathogenicity tests. In: Luchi, N. (eds) *Plant Pathology. Methods in Molecular Biology*, 2536: 23-49. Humana, New York, NY.
[DOI: 10.1007/978-1-0716-2517-0_2](https://doi.org/10.1007/978-1-0716-2517-0_2). WoS citations: 0. Scopus citations: 0.

Papers in international scientific periodicals with referees

1. Botella, L., Horta Jung, M., Rost, M., Jung, T. (2022). Natural populations from the *Phytophthora palustris* complex show a high diversity and abundance of ssRNA and dsRNA viruses. *Journal of Fungi* 8(11):1118.
[DOI: 10.3390/jof8111118](https://doi.org/10.3390/jof8111118) WoS citations: 0. Scopus citations: 0.
2. Jung, T., Milenković, I., Corcobado, T., Májek, T., Janoušek, J., Kudláček, T., Tomšovský, M., Nagy, Z., Durán, A., Tarigan, M., Sanfuentes von Stowasser, E., Singh, R., Ferreira, M., Webber, J., Scanu, B., Chi, N.M., Thu, P.Q., Junaid, M., Rosmana, A., Baharuddin, B., Kuswinanti, T., Nasri, N., Kageyama, K., Hieno, A., Masuya, H., Uematsu, S., Oliva, J., Redondo, M., Maia, C., Matsiakh, I., Kramarets, V., O'Hanlon, R., Tomić, Ž., Brasier, C., Horta Jung, M. (2022). Extensive morphological and behavioural diversity among fourteen new and seven described species in *Phytophthora* Clade 10 and its evolutionary implications. *Persoonia* 49: 1-57.
[DOI: 10.3767/persoonia.2022.49.01](https://doi.org/10.3767/persoonia.2022.49.01). WoS citations: 0. Scopus citations: 0.
3. Saiz-Fernández, I., Đorđević, B., Kerchev, P., Černý, M., Jung, T., Berka, M., Fu, C.-H., Horta Jung, M., Brzobohatý, B. (2022). Differences in the proteomic and metabolomic response of *Quercus suber* and *Quercus variabilis* during the early stages of *Phytophthora cinnamomi* infection. *Frontiers in Microbiology* 13: 894533.
[DOI: 10.3389/fmicb.2022.894533](https://doi.org/10.3389/fmicb.2022.894533). WoS citations: 0. Scopus citations: 0.
4. Chen, Q., Bakhshi, M., Balci, Y., Broders, K.D., Cheewangkoon, R., Chen, S.F., Fan, X.L., Gramaje, D., Halleen, F., Horta Jung, M., Jiang, N., Jung, T., Májek, T., Marincowitz, S., Milenković, T., Mostert, L., Nakashima, C., Nurul Faziha, I., Pan, M., Raza, M., Scanu, B., Spies, C.F.J., Suhaizan, L., Suzuki, H., Tian, C.M., Tomšovský, M., Úrbez-Torres, J.R., Wang, W., Wingfield, B.D., Wingfield, M.J., Yang, Q., Yang, X., Zare, R., Zhao, P., Groenewald, J.Z., Cai, L., Crous, P.W. (2022). Genera of phytopathogenic fungi: GOPHY 4. *Studies in Mycology* 101: 417-564.
[DOI: 10.3114/sim.2022.101.06](https://doi.org/10.3114/sim.2022.101.06). WoS citations: 0. Scopus citations: 0.
5. Maia, C., Horta Jung, M., Carella, G., Milenković, I., Janoušek, J., Tomšovský, M., Mosca, S., Schena, L., Cravador, A., Moricca, S., Jung, T. (2022). Eight new *Halophytophthora* species from marine and brackish-water ecosystems in Portugal and an updated phylogeny for the genus. *Persoonia* 48: 54-90.
[DOI: 10.3767/persoonia.2022.48.02](https://doi.org/10.3767/persoonia.2022.48.02). WoS citations: 0. Scopus citations: 0.
6. Scanu, B., Jung, T., Masigol, H., Linaldeddu, B.T., Horta Jung, M., Brandano, A., Mostowfizadeh-Ghalamfarsa, R., Janoušek, J., Riolo, M., Cacciola, S.O. (2021). *Phytophthora heterospora* sp. nov., a new pseudoconidia-producing sister species of *P. palmivora*. *Journal of Fungi* 7: 870.
[DOI: 10.3390/jof7100870](https://doi.org/10.3390/jof7100870). WoS citations: 0. Scopus citations: 0.
7. Shakya, S.K., Grünwald, N.J., Fieland, V.J., Knaus, B.J., Weiland, J.E., Maia, C., Drenth, A., Guest, D.I., Liew, E.C., Crane, C., Chang, T.-T., Fu, C.-H., Minh Chi, N., Quang Thu, P., Scanu, B., Sanfuentes von Stowasser, E., Durán, Á., Horta Jung, M. and Jung, T. (2021). Phylogeography of the wide-host range panglobal plant pathogen *Phytophthora cinnamomi*. *Molecular Ecology* 30: 5164-5178.
[DOI: 10.1111/mec.16109](https://doi.org/10.1111/mec.16109). WoS citations: 0. Scopus citations: 0.
8. Van Poucke, K., Haegeman, A., Goedefroit, T., Focquet, F., Leus, L., Horta Jung, M., Nave, C., Redondo, M.A., Husson, C., Kostov, K., Lyubenova, A., Christova, P., Chandelier, A., Slavov, S., De Cock, A., Bonants, P., Werres, S., Oliva Palau, J., Marçais, B., Jung, T., Stenlid, J., Ruttink, T., Heungens, K. (2021). Unravelling hybridization in *Phytophthora* using phylogenomics and genome size estimation. *IMA Fungus* 12: 16.
[DOI: 10.1186/s43008-021-00068-w](https://doi.org/10.1186/s43008-021-00068-w). WoS citations: 0. Scopus citations: 0.

9. Oliveira, L.S.S., Jung, T., Milenković, I., Tarigan, M., Horta Jung, M., Lumbangaol, P.D.M., Sirait, B.A. and Durán, Á. (2021). Damping-off, root rot and wilting caused by *Pythium myriotylum* on *Acacia crassicarpa* in Sumatra, Indonesia. *Forest Pathology* 51: e12687.
[DOI: 10.1111/efp.12687](https://doi.org/10.1111/efp.12687). WoS citations: 1. Scopus citations: 1.
10. O'Hanlon, R., Destefanis, M., Milenković, I., Tomšovský, M., Janoušek, J., Bellgard, S., Weir, B., Kudláček, T., Horta Jung, M., Jung, T. (2021). Two new *Nothophytophthora* species from streams in Ireland and Northern Ireland: *Nothophytophthora irlandica* and *N. lirii* sp. nov.. *PLOS ONE* 16(5): e0250527.
[DOI: 10.1371/journal.pone.0250527](https://doi.org/10.1371/journal.pone.0250527). WoS citations: 0. Scopus citations: 0.
11. Jung, T., Horta Jung, M., Webber, J.F., Kageyama, K., Hieno, A., Masuya, H., Uematsu, S., Pérez-Sierra, A., Harris, A.R., Forster, J., Rees, H., Scanu, B., Patra, S., Kudláček, T., Janoušek, J., Corcobado, T., Milenković, I., Nagy, Z., Csorba, I., Bakonyi, J., Brasier, C.M. (2021). The destructive tree pathogen *Phytophthora ramorum* originates from the Laurosilva forests of East Asia. *Journal of Fungi* 7: 226.
[DOI: 10.3390/jof7030226](https://doi.org/10.3390/jof7030226). WoS citations: 2. Scopus citations: 2.
12. Corcobado, T., Cech, T.L., Brandstetter, M., Daxer, A., Hüttler, C., Kudláček, T., Horta Jung, M., Jung, T. (2020). Decline of European beech in Austria: involvement of *Phytophthora* spp. and contributing biotic and abiotic factors. *Forests* 11: 895.
[DOI: 10.3390/f11080895](https://doi.org/10.3390/f11080895). WoS citations: 7. Scopus citations: 8.
13. Botella, L., Janoušek, J., Maia, C., Horta Jung, M., Raco, M., Jung, T. (2020). Marine Oomycetes of the genus *Halophytophthora* harbor viruses related to Bunyaviruses. *Frontiers in Microbiology* 11: 1467.
[DOI: 10.3389/fmicb.2020.01467](https://doi.org/10.3389/fmicb.2020.01467). WoS citations: 5. Scopus citations: 6.
14. Jung, T., Scanu, B., Brasier, C.M., Webber, J., Milenković, I., Corcobado, T., Tomšovský, T., Pánek, M., Bakonyi, J., Maia, C., Bačová, A., Raco, M., Rees, H., Pérez-Sierra, A., Horta Jung, M. (2020). A survey in natural forest ecosystems of Vietnam reveals high diversity of both new and described *Phytophthora* taxa including *P. ramorum*. *Forests* 11: 93.
[DOI: 10.3390/f11010093](https://doi.org/10.3390/f11010093). WoS citations: 20. Scopus citations: 22.
15. Jung, T., La Spada, F., Pane, A., Aloï, F., Evoli, M., Horta Jung, M., Scanu, B., Faedda, R., Rizza, C., Puglisi, I., Magnano di San Lio, G., Schena, L., Cacciola, S.O. (2019). Diversity and Distribution of *Phytophthora* Species in Protected Natural Areas in Sicily. *Forests* 10: 259.
[DOI: 10.3390/f10030259](https://doi.org/10.3390/f10030259). WoS citations: 13. Scopus citations: 14.
16. Eriksson, L., Boberg, J., Cech, T.L., Corcobado, T., Desprez-Loustau, M.-L., Hietala, A.M., Horta Jung, M., Jung, T., Doğmuş Lehtijärvi, H.T., Oskay, F., Slavov, S., Solheim, H., Stenlid, J., Oliva, J. (2019). Invasive forest pathogens in Europe: Cross-country variation in public awareness but consistency in policy acceptability. *Ambio* 48: 1-12.
[DOI: 10.1007/s13280-018-1046-7](https://doi.org/10.1007/s13280-018-1046-7). WoS citations: 4. Scopus citations: 4.
17. Jung, T.; Pérez-Sierra, A.; Durán, A.; Horta Jung, M.; Balci, Y.; Scanu, B. (2018). Canker and decline diseases caused by soil- and airborne *Phytophthora* species in forests and woodlands. *Persoonia* 40: 182-220.
[DOI: 10.3767/persoonia.2017.39.07](https://doi.org/10.3767/persoonia.2017.39.07). WoS citations: 67. Scopus citations: 73.

18. Desprez-Loustau, M.-L., Massot, M., Toïgo, M., Fort, T., Aday Kaya, A.A., Boberg, J., Braun, U., Capdevielle, X., Cech, T., Chandelier, A., Christova, P., Corcobado, T., Dogmus, T., Dutech, C., Fabreguettes, O., Faivre d'Arcier, J., Gross, A., Horta Jung, M., Iturrutxa, E., Jung, T., Junker, C., Kiss, L., Kostov, K., Lehtijarvi, A., Lyubenova, A., Marçais, B., Oliva, J., Oskay, F., Pastirčák, M., Pastirčáková, K., Piou, D., Saint-Jean, G., Sallafranque, A., Slavov, S., Stenlid, J., Talgø, V., Takamatsu, S., Tack, A.J.M. (2018). From leaf to continent: The multi-scale distribution of an invasive cryptic pathogen complex on oak. *Fungal Ecology* 36: 39-50.
[DOI: 10.1016/j.funeco.2018.08.001](https://doi.org/10.1016/j.funeco.2018.08.001). WoS citations: 16. Scopus citations: 17.
19. Jung, T., Durán, A., von Stowasser E.S., Schena, L., Mosca, S., Fajardo, S., González, M., Navarro Ortega, A.D., Bakonyi, J., Seress, D., Tomšovský, M., Cravador, A., Maia, C., Horta Jung, M. (2018). Diversity of *Phytophthora* species in Valdivian rainforests and association with severe dieback symptoms. *Forest Pathology* 48: e12443.
[DOI:10.1111/efp.12443](https://doi.org/10.1111/efp.12443). WoS citations: 11. Scopus citations: 11.
20. Jung, T., Scanu, B., Bakonyi, J., Seress, D., Kovács, G.M., Durán, A., Sanfuentes von Stowasser, E., Schena, L., Mosca, S., Thu, P.Q., Nguyen, C.M., Fajardo, S., González, M., Pérez-Sierra, A., Rees, H., Cravador, A., Maia, C., Horta Jung, M. (2017). *Nothophytophthora* gen. nov., a new sister genus of *Phytophthora* from natural and semi-natural ecosystems in Europe, Chile and Vietnam. *Persoonia* 39: 143-174.
[DOI: 10.3767/persoonia.2017.39.07](https://doi.org/10.3767/persoonia.2017.39.07). WoS citations: 9. Scopus citations: 14.
21. Jung, T., Horta Jung, M., Cacciola, S. O., Cech, T., Bakonyi, J., Seress, D., Mosca, S., Schena, L., Seddaiu, S., Pane, A., Magnano di San Lio, G., Maia, C., Cravador, A., Franceschini, A., Scanu, B. (2017). Multiple new cryptic pathogenic *Phytophthora* species from *Fagaceae* forests in Austria, Italy and Portugal. *IMA Fungus* 8: 219-244.
[DOI: 10.5598/imafungus.2017.08.02.02](https://doi.org/10.5598/imafungus.2017.08.02.02). WoS citations: 30. Scopus citations: 31.
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Seminars and Lectures

Coelho, A.C. & Horta, M. "The decline disease in cork oak". Seminar included on the subject "Microbial Biology II" of the Master in Molecular and Microbial Biology, University of Algarve (Faculty of Marine and Environmental Sciences), 16th January 2008.

Horta, M. "Biomolecular studies in *Phytophthora cinnamomi*, one of the most aggressive plant pathogens". Seminar included on the subject "Introduction to Biologic Engineering" of the Master in Biologic Engineering of the University of Algarve (Faculty of Engineering and Natural Resources), 29th November 2007.

Participation in Conferences and other Scientific Meetings

- 21st Annual Meeting of the Oomycete Molecular Genetics Network (OMGN2022), Brno (Czech Republic), 22 to 25 August 2022.
- 3rd Joint Annual Meeting of HORIZON 2020 Projects POnTE (Pest Organisms Threatening Europe) and XF-ACTORS (Xylella Fastidiosa Active Containment Through a multidisciplinary-Oriented Research Strategy), Ajaccio (France), 28 to 30 October 2019.
- 9th IUFRO Working Party S07.02.09 on *Phytophthoras* in Forests and Natural Ecosystems", La Maddalena, Sardinia (Italy), 17 to 26 October 2019.
- 20th Meeting of the Oomycete Molecular Genetics Network", Oban, Scotland (United Kingdom), 10 to 12 July 2019.
- 29th Fungal Genetics Conference", Pacific Grove, California (USA), 14 to 19 March 2017.
- 18th Meeting of the Oomycete Molecular Genetics Network", Pacific Grove, California (USA), 11 to 14 March 2017.
- Seventh IUFRO Working Party S07.02.09 on *Phytophthoras* in Forests and Natural Ecosystems", Esquel, Chubut (Argentina), 10 to 14 November 2014.
- Sixth IUFRO Working Party S07.02.09 on *Phytophthoras* in Forests and Natural Ecosystems, Córdoba and Valencia (Spain), 09 to 14 September 2012.
- Sixth COST-Action FP0801 Meeting on Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe", Budapest (Hungary), 21-22 November 2011.
- Workshop "Present and Future of Cork Oak in Portugal", Oeiras (Portugal), 21st October 2011.
- II Reunión Científica de Sanidad Forestal - Sociedad Española de Ciencias Forestales", Plasencia (Spain), 21-22 September 2011.
- Fifth COST-Action FP0801 Meeting on Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe", Viterbo (Italy), 28 to 30 June 2010.
- Fifth IUFRO Working Party S07.02.09 on *Phytophthoras* in Forests and Natural Ecosystems, Rotorua (New Zealand), 07 to 12 March 2010.

- 3rd Working Groups Meeting (WG1. Invasive Potential and Ecology and WG2. Host-Pathogen Interactions) of the COST-FPS Action FP0801 (Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe), Brussels, 5 and 6 November 2009.
- 8th Plant GEM - Plant Genomics European Meeting, Lisbon, 07 to 10 October 2009.
- 2nd Working Groups Meeting (WG3. Diagnostics and WG4. Management and Control) of the COST-FPS Action FP0801 (Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe), Faro, 10 to 12 September 2009 (member of the Organizing Committee).
- 1st Scientific Meeting of the Institute for Biotechnology and Bioengineering, Faro, 15 and 16 May 2009.
- 1^o Encontro da Plataforma de Genómica Funcional de Plantas, Faro, 12 and 13 July 2007.
- I Congresso "Sustentabilidades e Ruralidades – O Montado de Azinho", Évora, 19 to 21 January 2007.
- Seminar "A vitalidade dos povoamentos de sobreiro e azinheira". Évora, 25 and 26 October 2006.
- Third IUFRO Working Party 07.02.09 on *Phytophthora* in Forest and Natural Ecosystems, Freising and Innsbruck, 11 to 17 September 2004.
- 4^o Congresso da Sociedade Portuguesa de Fitopatologia. Faro, 4 to 6 February 2004.
- XI International Congress on Molecular Plant-Microbe Interactions, Saint Petersburg, 18 to 26 July 2003.
- XIII Congresso Nacional de Bioquímica, Lisbon, 5 to 7 December 2002.
- I Jornadas de Engenharia Biotecnológica. Faro, 1 to 3 March 2000.
- Conference "Controlo Biológico das Doenças de Solo" by Prof. Harry A.J. Hoitink (Ohio State University). Faro, 9 and 10 February 2000.
- "First IUFRO Working Party 07.02.09 on *Phytophthoras* in Forest and Wildland Ecosystems", Grant Pass (Oregon, EUA), 30 August to 03 September 1999.
- "Biotec 94 – II Congresso Ibérico de Biotecnologia". Vilamoura (Portugal), 1 to 4 October 1994.