

Curriculum vitae

Margarida Maria Lucas de Almeida Souto Themudo Barata

Experience in training

PhD Thesis:

Maria da Luz Jeremias Cardinha do Maio Calado **2010/2015** – Biodiversity and ecological characterization of higher marine fungi associated with *Spartina maritima* (Curtis) Fernald.

Egídia Maria Valente de Azevedo **2005/2011** – Diversity of marine fungi on the Portuguese west coast. Thesis concluded on April 26, **2012**.

Master Thesis:

Paula Paulino **2014/2015** – Diversity of root endophytic fungi from salt marshes plants and their potential benefits on crop salinity tolerance. Faculty of Sciences, University of Lisbon.

Dulce Maria da Silva Figueira - Diversity of Marine Fungi and keratinophilic in Sand Beaches. Faculty of Sciences, University of Lisbon. Thesis concluded on **2004**

Egídia Maria Valente de Azevedo - Diversity in the Kingdom Fungi-masters of Earth Sciences and Life. Faculty of Sciences, University of Lisbon. Thesis concluded on **2003**.

Publications

Book Chapters

2012 - Calado, M. L. and **Barata, M.** 2012. Salt marsh fungi. In: Marine fungi and fungal-like organisms (eds. E. B. G. Jones and K. L. Pang). De Gruyter, Berlin. Chapter 18, pp.345 – 381.

2010 - Azevedo, E.; Figueira, D.; Caeiro, M. F. and **Barata, M.** 2010. Biodiversity of Filamentous Fungi on Soils and Sands. In: Progress in Mycology. Rai, Mahendra; University of Debrecen (Eds.) Jointly published with Scientific Publishers (India). Chapter 8, pp 233 – 257. Publisher: Springer; 1 edition (Dec 1 2009).

2002 - **Margarida Barata.**

Fungi on halophyte *Spartina maritima* in salt marshes. In: Fungi in Marine Enviroments (ed.K.D.Hyde). Fungal Diversity Research series 9, Fungal Diversity Press, Hong Kong.

Papers in international scientific periodicals with referees

Egídia Azevedo, **Margarida Barata**, Maria Filomena Caeiro. **2018**. Morphological and phylogenetic analyses of *Nia vibrissa*, a marine Basidiomycota collected in Portuguese waters. *Regional Studies in Marine Science*. <https://doi.org/10.1016/j.rsma.2017.12.006>
In Press, Corrected Proof, Available online 2 January 2018

Azevedo, E., **Barata, M.**, Marques, M.I. & Caeiro, M.F. **2017**. *Lulworthia atlantica*: a new species supported by molecular phylogeny and morphological analysis. *Mycologia*, **109(2)**, 287-295.
DOI:10.1080/00275514.2017.1302255 (IF2016 2,550; Q2 Mycology)

Maria da Luz Calado, Luís Carvalho, Ka Lai Pang and **Margarida Barata**. **2015**. Diversity and ecological characterization of sporulating higher filamentous marine fungi associated with *Spartina maritima* (Curtis) Fernald in two Portuguese salt marsh. *Microbial Ecology*: DOI 10.1007/s00248-0600-0. Published online 08 April 2015.

E. Azevedo, M. F. Caeiro, **M. Barata**. 2013. Portuguese marine fungi and the contribution of differential interference contrast (DIC) microscopy for their morphological identification. *Microscopy and Microanalysis*: 19 (S4) pp 17-18.

Azevedo, E., R. Rebelo, M.F. Caeiro and **M. Barata**. 2012. Use of drift substrates to characterize marine fungal communities from the west coast of Portugal. – *Mycologia* 104 (3) pp.623 – 632

Azevedo, E., R. Rebelo, M.F. Caeiro and **M. Barata**. 2011. Biodiversity and characterization of marine mycota from Portuguese waters. - *Animal Biodiversity and Conservation* 34.1, 205-215.

Egídia Azevedo, Rui Rebelo, Maria F. Caeiro and **Margarida Barata**. 2010. Diversity and richness of marine fungi on two Portuguese marinas. *Nova Hedwigia* 90 3—4 521—531 Stuttgart

Vita-Marques, Aline Maria de; Lira, Simone P.; Berlink, R. G. S.; Selegim, Mirna H. R. ; Sponchiado, Sandra R. P. ; Tauk-Tornisielo, Sâmia M.; **Barata, Margarida**; Pessoa Claudia; Moraes, Manoel O. de ; Cavalcanti, Bruno Coêlho ; Nascimento, Gislene G. F.; Souza, Ana O. de ; Galetti, Fabio C. S. ; Silva Célio L.; Silva, Marcio; Pimenta, Eli F.; Thiemann, Otavio; Passarini, Michel R. Z.; Sette, Lara D.. 2008. A multi-screening approach for marine derived fungal metabolites and the isolation of cyclodepsipeptides from *Beauveria felina*. *Quimica Nova*, Vol 31, Nº5, S1-S4.

Dulce Figueira and **Margarida Barata**. 2007. Marine fungi from two sandy beaches in Portugal. *Mycologia*, 99(1) pp.20-23.

Margarida Barata. 2006. Marine fungi from Mira river salt marsh in Portugal. *Revista Iberoamericana de Micología*; 23:179-184

Pedro Lopes Moreira and **Margarida Barata**. 2005. Egg Mortality and early embryo hatching caused by fungal infection of Iberian rock lizard (*Lacerta monticola*) clutches. *Herpetological Journal*, Vol.15 (4): 265-272.

Barata, M., M.C.Basílio and J.L.Baptista Ferreira. 1997. *Nia globospora*, a new marine gasteromycete on baits of *Spartina maritima* in Portugal. *Mycological Research* 101(6): 687-690.

Oral Communications

2016 - Azevedo, E., **M. Barata**, M. F. Caeiro. Morphological and molecular characterization of Portuguese isolates of *Nia vibrissa*. XVIII Simpósio Ibérico de Estudios de Biología Marina. Porto. (Portugal). 7 de Setembro 2016

2015 - Maria da Luz Calado, Luís Carvalho, Ka-Lai Pang and **Margarida Barata**. Assessment of marine fungal community associated with *Spartina maritima* (Curtis) Fernald standing plants by morphological and molecular methods. XVII. Congress of European Mycologists. Madeira (Portugal). 20 a 25 Setembro 2015.

2014 - E. Azevedo, **M. Barata**, I.M. Marques, M.F.Caeiro. Morphological and molecular analyses of Portuguese *Lulworthiales* and the proposal of a new species of *Lulworthia*. XVIII Simposio Iberico de estudios de Biología Marina - Gijon Astúrias, Spain September 2th - 5th 2014.

2013 - Maria da Luz Calado, Luís Carvalho, Ka-Lai Pang and **Margarida Barata**. Diversity of marine fungi associated with *Spartina maritima* (Curtis) Fernald in Portuguese salt marshes. **Asian Mycological Congress 2013 & the 13th International Marine and Freshwater Mycology Symposium. Beijing, China. 20 August 2013.**

2012 - Azevedo, E., Rebelo, R., Caeiro, M.F. and **Barata, M.** Diversity and similarity of marine fungi associated to driftwood from four geographic regions of the western coast of Portugal. XVII Simpósio Ibérico de Estudios de Biología Marina. San sebastian. (Spain). 12 September 2012.

2012 - Egídia Azevedo, Maria Filomena Caeiro and **Margarida Barata**. Portuguese marine fungi and the contribution of differential interference contrast (DIC) microscopy for their morphological

identification. 46th Annual Congress of the Portuguese Society of Microscopy (SPMicros). Lisbon, Portugal, 25 September 2012.

2010 - Azevedo, E., Rebelo, R., Caeiro, M.F. and **Barata, M.** Biodiversity and characterization of marine fungi on two Portuguese marinas. XVI Simpósio Ibérico de Estudios de Biología Marina. Alicante. (Spain). 6 - 10 September 2010.

2001 - Margarida Barata. Marine Fungi from Portugal. The 8th International Marine and Freshwater Mycology Symposium. Hurghada - Egypt, 7-10 July 2001.
Lisbon, 25 Julho 2012.

Participation in research projects

Designing biofertilizers by mimicking plants' recruitment of rhizospheric partners- BioClub". **PTDC/AGR-PRO/1852/2014 - FCT.** Participant

N-Nitro: conceptualization of the effects of increased availability of nitrogen in a Mediterranean ecosystem. **PTDC/BIA-ECS/122214/2010.** Participant

Rhizospheric microbial consortia to increase nutrient use efficiency. A tool to be used in intensive farm systems. **PTDC/AGR-PRO/115888/2009.** Participant

Spheres of ecosystem response to nitrogen: a case study in Mediterranean-type ecosystem in southern Portugal. **PTDC/BIA-BEC/099323/2008.** Participant

Comparative ecological implications of ammonium and nitrate availabilities in Mediterranean ecosystems **POCI/BIA-BDE/59183/2004.** Participant.

New insights for understanding the causes of rarity in plant species. **POCI/BIA-BDE/60664/2004.** Participant.