

Visão global**1. Dados pessoais****Nome completo**

Cristina Maria Filipe Maguas Silva Hanson

Nome sob o qual publica

Cristina Maria Filipe Maguas Silva Hanson

Número de identificação fiscal (NIF)

191712850

Documento de identificação (BI, passaporte...)

6214592

Data de nascimento

25-11-1962

País de nacionalidade

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Sexo

F

Morada institucionalFaculdade de Ciências da Universidade de Lisboa, Departamento de Biologia Vegetal
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URL<http://www.researcherid.com/rid/G-3441-2011>**2. Formação académica****Ano: 1997****Grau: DOUTORAMENTO****Classificação:** Classified with Distinction and Honour**Instituição que conferiu o grau:** Universidade de Lisboa**Faculdade:** Faculdade de Ciências**Título da tese:****Orientador:****Co-orientador:****Domínio científico:****Designação do curso:** Biologia

Ano: 1994**Grau: Aptitude tests for Pedagogic and Scientific Capacity****Classificação: Very Good****Instituição que conferiu o grau: Universidade de Lisboa****Faculdade: Faculdade de Ciências****Título da tese:****Orientador:****Co-orientador:****Domínio científico:****Anos curriculares: 1****Designação do curso: Biologia****Ano: 1987****Grau: LICENCIATURA****Classificação: 14****Instituição que conferiu o grau: Universidade de Lisboa****Faculdade: Faculdade de Ciências****Título da tese:****Orientador:****Co-orientador:****Domínio científico:****Anos curriculares: 1****Designação do curso: Biologia****3. Actividades anteriores e situação actual**

Período	Cargo, categoria ou actividade	Instituição
01-3-2012 a	Vice-President	European Ecological Federation (EEF)
a	Auxiliary Professor	Departamento de Biologia Vegetal da Faculdade de Ciências da Universidade de Lisboa (DBV-FCUL)
a	Member of the Portuguese Scientific Committee	SIBAE (Stable Isotope Biosphere Atmosphere Exchange)
a	Executive Committee	Centre for Environmental Biology (CBA-FCUL)
a	Group Coordinator of Environment Functional Ecology	Centre for Environmental Biology (CBA-FCUL)
01-1-2007 a 31-12-2009	Member of the Board	Instituto de Ciência Aplicada e Tecnologia (ICAT-FCUL)
a	Member of the Board (Treasurer)	Sociedade Portuguesa de Ecologia (SPECO)
a	Coordinator of Laboratory of Stable Isotopes and Instrumental Analysis Facility (SIIAF)	Fundação da Faculdade de Ciências da Universidade de Lisboa
a	Member of the Scientific Committee	Centro de Ecologia e Biologia Vegetal (CEBV-FCUL)
a	Assistant Professor	Departamento de Biologia Vegetal da Faculdade de Ciências da Universidade de Lisboa (DBV-FCUL)

4. Área de actividade científica

Ecophysiology
 Mass spectrometry for isotope ratio
 Ecology
 Mediterranean ecosystems
 Lichenology
 Water relations
 Invasive alien plants

5. Domínio de especialização**Domínio de especialização**

Ecophysiology and Mass Spectrometry for Isotope Ratio.

Actuais interesses de investigação

Ecophysiology
Mass spectrometry for isotope ratio
Ecology
Mediterranean ecosystems
Ecological tracers
Plant functional types
Water and carbon fluxes
Water relations
Invasive alien plants

Outras competências/actividades

<http://sites.google.com/site/siaifcba/>

6. Experiência na orientação

POS-DOC:

2011-2012 - Supervisor of Pos-Doc thesis of Carla Isabel Igreja Rodrigues (FCUL) "Geographical Origin Discrimination of the Green Coffee Bean and Analytical Qualification of the Roasting Profiles".

2009-2010 - Supervisor of Pos-Doc thesis of Simone Vieira (Universidade de S. Paulo - Brasil) "The influence of water on carbon stock and dynamics in Atlantic Coastal Ecosystems" (FCT/SFRH/BPD/48709/2008).

2001-2002 - Supervisor of Pos-Doc thesis of Christiane Werner (University of Bielefeld - Germany), "The use of carbon and oxygen stable isotopes on Mediterranean vegetation". (Jun. Prof.)

2001-2002 - Supervisor of Pos-Doc thesis of Michael Lakatos (University of Kaiserslautern - Germany), "Sources influencing the stable isotope composition of poikilohydric organisms". (Jun. Prof.)

2000-2001 - Supervisor of Pos-Doc thesis of Elsa Martinez-Ferri (Universidad Complutense de Madrid - Spain), "New applications of carbon and oxygen isotopes on different ecological plant groups".

PhD:

2008-2012 - Co-supervisor of the PhD thesis of Sofia Augusto (FCUL) "Desenvolvimento de uma tecnologia de biomonitorização da poluição atmosférica por compostos orgânicos tóxicos e respectivo impacto ao nível do ecossistema e da saúde pública" (FCT/SFRH/BD/35308/2007), with supervisor of Dr^a. Cristina Branquinho (Universidade Atlântica, Portugal).

2010-2011 - Co-supervisor in the PhD thesis of Juliana Neves Barbosa (UFLA- Brazil) "Contribuição para a certificação de origem demarcada dos cafés especiais da Serra da Mantiqueira-MG através do estudo isotópico por espectrometria de massa de razão isotópica (IRMS)". Co-orientação com Dr. Flávio Meira Borém (UFLA - Brazil).

2007-2011 - Co-supervisor of the PhD thesis of Katherine Grieve Rascher (Universidade de Bielefeld - Germany) "Competition between native species and an invasive species (*Acacia longifolia*) in a Mediterranean dune Ecosystem: water and nutrient use" (DAAD grant), with supervisor of Dr.^a Christiane Werner (Universidade de Bielefeld - Germany).

2006-2011 - Supervisor of the PhD thesis of Carla Rodrigues (FCUL) "Discriminação da origem geográfica do grão verde do café e qualificação analítica da torra" (FCT/SFRH/BD/28354/2006), in collaboration with Dr. José Nogueira (FCUL-Universidade de Lisboa - DBQ, , Portugal).

2005-2010 - Supervisor of the PhD thesis of Pedro Pinho (FCUL) "Modelação das comunidades líquénicas: factores ecológicos chave num ambiente em mudança" (FCT/SFRH/BD/17880/2004), in collaboration with Dr^a. Cristina Branquinho (Universidade Atlântica, Portugal).

2004-2007 - Co-supervisor in the PhD thesis of Britta Hartard (University of Kaiserslautern - Germany) "The fractionation processes concerning the stable isotopes ¹⁸O/¹⁶O during photosynthesis, respiration and evaporation of poikilohydric organisms", with supervisor Dr. Michael Lakatos (University of Kaiserslautern - Germany). (Research fellowship)

2002-2007 - Co-supervisor in the PhD thesis of Stephen Unger (Universidade de Bielefeld - Germany) "Partitioning ecosystem scale carbon fluxes into photosynthetic and respiratory components with emphasis on dynamics in ^{d13}CO₂", with supervisor of Dr.^a Christiane Werner (Universidade de Bielefeld - Germany).

2000-2004 - Supervisor of the PhD thesis of Gisela Oliveira (FCUL) "Productivity of epiphytic lichen species in relation to macro and micro climatic variations", in collaboration with Prof. Kristin Palmqvist, (University of Umea - Sweden).

MASTER THESIS:

2010-2012 - Supervisor in the master thesis of Ana Pedro (FCUL) "Estudo das populações de *Acacia dealbata* nas ribeiras do concelho de Vila de Rei". in collaboration with Prof^a Dr^a Otilia Correia.

2010-2012 - Supervisor in the master thesis of Ângela Mende (ISA) "Índices de vitalidade em pinheiro bravo infectado pelo nemátode (*Bursaphelenchus xylophilus*)" in collaboration with Prof^a Dr^a Otilia Correia.

2010-2011 - Co-supervisor in the master thesis of Luciana Azevedo de Sá Rio Branco (Universidade do Porto) "Análise de isótopos de oxigénio em peças dentárias para determinação de origem e mobilidade geográficas: um estudo piloto", Mestrado e Ciências Forenses. Co-orientação com Prof. Dr. Hugo Cardoso e com Prof^a Dr^a Inês Caldas (Universidade do Porto).

2009-2011 - Supervisor in the master thesis of Dora Nazaré Marques (FCUL) "Avaliação do impacte da *Acácia* spp. em sistemas dunares costeiros".

2009-2011 - Supervisor in the master thesis of Élia Pires Marques (FCUL) "Aplicação da análise da composição isotópica no esclarecimento da origem das presas consumidas pela lontra numa área de pisciculturas".

2009-2011 - Supervisor in the master thesis of Patrícia Fernandes (FCUL) "Os principais factores que contribuem para as diferenças no desenvolvimento fenológico da *Acácia longifolia*".

2008-2010 - Co-supervisor in the master thesis of Maren Dubbert (Universidade de Bielefeld - Germany) "Species-specific differences in photosynthetic and post-photosynthetic fractionation processes, altering ^{d13}C on temporal and spatial scales" (ERASMUS). in collaboration with Dr.^a Christiane Werner (Universidade de Bielefeld - Germany).

2008-2010 - Co-supervisor in the master thesis of Marc Müller (Universidade de Bielefeld - Germany) "Population dynamics of *Acacia longifolia* and three native species (*Halimium halimifolium*, *Rosmarinus officinalis*, *Ulex europaeus*) understorey in a pinewood and after the elimination of *Pinus Pinaster*" (ERASMUS). in collaboration with Dr.^a Christiane Werner (Universidade de Bielefeld - Germany).

2007-2009 - Co-supervisor in the master thesis of André Große-Stoltenberg (Universidade de Bielefeld - Alemanha) "Impacts of an "invasive engineer" on the structure of Mediterranean-atlantic dune and forest phytocoenoses (ERASMUS)" in collaboration with Dr.^a Christiane Werner (Universidade de Bielefeld - Alemanha).

7. Participação em projectos

Participação em projectos de investigação (coordenador e colaborador)

2007-2009 - Collaboration with Prof. Dr. Hans Schnyder (T. University of München - Germany), "Reconstruction of Alpine Meadows 13C Discrimination during the Last Century using Capra ibex Horns". (Research fellowship)

2007-2008 - Co-supervisor in the master thesis of Anja Emmes (Universidade de Kaiserslautern - Germany) "Characterization of water exchange processes of cyanobacterialichens with stable isotopes" (ERASMUS). in collaboration with Dr. Michael Lakatos (Universidade de Kaiserslautern - Germany).

2007-2008 - Co-supervisor in the master thesis of Kristin Müller (Universidade de Kaiserslautern - Germany), "The stable isotope 18O as a tracer for water exchange processes of the moss Leucodon sciuroides" (ERASMUS). in collaboration with Dr. Michael Lakatos (Universidade de Kaiserslautern - Germany).

2001-2002 - Co-supervisor in the master thesis of Stephen Unger (University of Bielefeld - Germany), supervisor Dr.^a Christiane Werner (University of Bielefeld - Germany). "Effects of mild and severe drought stress on leaf $\delta^{13}\text{C}$ and gas exchange in mediterranean species".

COORDINATOR:

2012-2015

"Coastal Dune Forests under Scenarios of Groundwater Limitation: from Tropics to Mediterranean (GWTropiMed)" (PTDC/AAC-CLI/118555/2010), FCT.

2010-2012

"Pursuing green coffee geographic origin discrimination through relations between isotopes and environmental factors (IsoGeoCoffee)" (PTDC/AGR-AAM/104357/2008), FCT.

2009-2012

COST Action (oc-2008-1-2255), ETH Zurich - "Stable Isotopes in Biosphere-Atmosphere-Earth System Research (SIBAE)", EU. (Coordenação Nacional e líder do International Working Group I).

2009-2010

Ação Integrada Luso-Alemã – GICES/DAAD, intitulada "Impact of an invasive species on water relations and plant community functioning in a Mediterranean dune ecosystem" (D/08/13009), em colaboração com Dra. Christiane Werner (Universität Bielefeld - Alemanha).

Ação Integrada Luso-Italiana – FCT/CNR, intitulada "From leaf physiology to grain geographical origin: an integrated study of different *Coffea* genotypes", em colaboração com o Prof. Enrico Brugnoli (Istituto di Biologia Agro-Ambientale e Forestale, Porano, Itália).

"Plano de monitorização do estado de conservação biológica de depressões dunares em osso da baleia (Pombal)" - Contrato de Prestação de Serviços, REN-Armazenagem.

2005-2009

"Effects of fragmentation on stand structure of *Quercus faginea* forests: key factors influencing water balance". Aprovado no âmbito do programa POCI - (POCTI/BIA-BDE/60792/2004) em colaboração com o ICAT, IST, PNSAC.

"Contribution of cryptogams to carbon and water fluxes" Aprovado no âmbito do programa POCI - (POCI/BIA-BDE/60140/2004), em colaboração com ICAT e com a Universität Kaiserslautern - Alemanha.

Ação Integrada Luso-Alemã – GRICES/DAAD, intitulada "Contribution of cryptogams to ecological fluxes", em colaboração com Dr. Michael Lakatos (Universität Kaiserslautern - Alemanha).

2005-2006

"Determinação da origem de cafés seleccionados e optimização dos parâmetros de torra para obtenção de perfis aromáticos" (Projecto ORITOCAFÉ). Aprovado no âmbito da ADI, em colaboração com ICAT e NOVADELTA.

2003-2006

"Responses of a dune community to changes in ground water levels". Aprovado no âmbito do programa SAPIENS - (POCI/BIA- BSE/40736/2001) em colaboração com a Transgás – Sociedade Portuguesa de Gás Natural, S.A.

2003-2005

Ação Integrada Luso-Alemã – GRICES/DAAD, intitulada "Resposta de um ecossistema dunar aos recursos de água e nitrogénio", em colaboração com Dr.a Christiane Werner (Universität Bielefeld - Alemanha).

2002-2003

Programa bilateral de colaboração ICCTI/Hungria, intitulado "Ecophysiology of lichens under present-day and elevated air CO₂ concentrations", em colaboração com o Prof. Zoltan Tuba (Szent István University - Hungria).

2001-2004

"Competition ability and resource dynamics in coastal dune ecosystems: invasive vs native plant species". Aprovado no âmbito do programa SAPIENS - (POCTI/BSE/34689/99), em colaboração com o Departamento de Botânica da Universidade de Coimbra.

2001-2002

Convénio ICCTI/CNR "Fotossíntese e produtividade em ecossistemas mediterrânicos. Estudos das composições isotópicas, relações hídricas e balanço de carbono", em colaboração com o CNR (Porano) Prof. Enrico Brugnoli.

2000-2002

"European biodiversity assessment tools (BioAssess)" (EVK2-CT-1999-00041). Coordenador Allan Watt (NERC, UK). Em colaboração com University of Helsinki, National University of Ireland, Dublin, British Trust for Ornithology, The Natural History Museum, Albert Ludwigs Universität, Freiburg, Generalitat de Catalunya, Stichting Vlinderonderzoek, The Netherlands, Eidgenössische Forschungsanstalt für Wald, Switzerland, Institut de Recherche pour le Développement, Universidade Autónoma de Madrid, Universidade de Castilla – la Mancha, Universidade de Murcia, Universidade Complutense de Madrid, Fundação da Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Universidade de Coimbra, Instituto Superior de Agronomia, Hungarian Natural History Museum, The Finnish Forest Research Institut, Mãe d'Água, Consultoria Técnica em Áreas de Interesse Natural, Lda., Parc Naturele Regional du Morvan, Université Paul Sabatier de Toulouse III, Centre Nationale de la Recherche Scientifique, Museum National d' Histoire Naturelle. (Coordenação nacional do grupo dos líquenes)

1999-2000

Convénio ICCTI/CNR "Isótopos estáveis e trocas gasosas na fotossíntese: a sua importância em estudos de produtividade/ciclo do carbono na vegetação mediterrânica", em colaboração com o Prof. Enrico Brugnoli, CNR, Porano, Itália.

1997-1998

Ação Integrada Luso-Espanhola (CRUP), intitulada "Avaliação das consequências do aumento da concentração do CO₂ atmosférico nas comunidades epifíticas de líquenes através de técnicas ecofisiológicas e anatómicas", em colaboração com o Dr. Fernando Valladares, CSIC, Madrid, Espanha.

MEMBER OF TEAM:

2013-2015

"Implications of environmental changes of CO₂ and temperature at the plant and bean quality levels in the coffee tree (*Coffea* spp.) - Multidisciplinary characterization of the impact and acclimation ability of the producing species" (PTDC/AGRPRO/3386/2012), FCT.

"A systems approach to understand salt stress tolerance in *Casuarina glauca* and its relationship with symbiotic nitrogen fixation" (PTDC/AGR-FOR/4218/2012), FCT.

2013-2014

"IsoCork - Climate effects on cork growth assessed by isotope fingerprinting" (EXPL/AGRFOR/1220/2012), FCT.

2011-2014

FP7-PEOPLE-2010-IRSES Marie Curie Actions "INvasive SPecies Evaluation, Control & Education.NETwork", in collaboration with Universität Bielefeld.

2011-2013

Projecto Estratógico – UI-329 – 2011–2012” (PEst-OE/BIA/UI0329/2011); FCT.

8. Prémios e Distinções

AIFA – Coordinated Research Project “Implementation of Nuclear Techniques to Improve Food Traceability”. (Member of the Expertise Group “Stable Light Isotopes (C, N, O, S, H) by IRMS for Food Traceability”).
Best Oral presentation, on JESIUM
2008, August 31 – Setembro 5,
Accção Integrada Luso-Italiana – FCNRS, Itália, “Evaluation of phenological plasticity within invasive species of the genus *Acacia* under Mediterranean conditions”, em colaboração com o Prof. Marco Lauteri (Istituto di Biologia Agro-Ambientale e Forestale)
Poster Presentation, on
BASIN/SIBAF Stable Isotope
Conference. 13-15 Março, Tomar,
Portugal.
BASIN/SIBAF

2010-2012
Modeling ecosystem structure and functional diversity as early-warning indicators of desertification and land degradation – from regional to local level (PTDC/AAC-CLT/104913/2008).

9. Publications

Development of adaptive management system for predicting and mitigating damage caused by the pine wilt nematode *Bursaphelenchus xylophilus* (Nematoda: Aphelenchoideae) in Portugal (PTDC/AGR-TESE/
PHN/108899/2009) (Ecology and Plants Systematic), Universidade de Lisboa, December 1997. "Carbon Isotope Discrimination and Gas Exchange in Lichens: Implications for CO₂ uptake mechanisms and resistance to infection - Assessment of the environmental impact of agrochemicals on water resources in agricultural Mediterranean ecosystems" (PTDC/AAC-AMB/100635/2008).

Capítulos de livros

Pinto P., Martins Louçã M.A., Máguas C.R. & Brundage G. (In press). Calibrating total nitrogen concentration in lichen integrated analysis: intra-specific variability across five Mediterranean photophilic species of the género "*Acacia*" em condições mediterrâneas, em colaboração com o Prof. Enrico Brunold (Istituto di Biologia Agro-Ambientale e Forestale, Poligno, Italy). Nitrogen Deposition, Critical Loads and Biodiversity (Proceedings of the International Nitrogen Initiative Workshop, linking experts of the Convention on Long-range Transboundary Air Pollution and the Convention on Biological Vegetation: study of the ecophysiology and water resources using isotopic analysis (CGL2008-10577, Spain)
Rodrigues E., Maia R., Lauteri M., Brugnoli E. & Máguas C. 2013. Stable Isotope Analysis. In Food Protected Designation of Origin Methodologies and Applications: A Comprehensive Analytical Chemistry Vol. 60, Chapter 14, Water stability, in collaboration with CBA and Universitat Bréileng, The Netherlands.

Rodrigues E., Maia R., Brugnoli E. & Máguas C. 2013. Coffee Traced and Protected Designation of Origin Methodologies and Applications: A Comprehensive Analytical Chemistry Vol. 60, Chapter 14, Water stability, in collaboration with CBA and Universitat Bréileng, The Netherlands.

Pinto P., Máguas C., Gonçalves C., Martins Louçã M.A. & Brundage G. 2011. Selecting critical areas for monitoring the atmospheric ammonia on biodiversity in Bickelink, Whitfield CP, Bealey WJ, Sutton MA (eds.) Nitrogen Deposition and Natura 2000- Science & practice in determining environmental impacts (Book of Proceedings of the COST729 Mid-term workshop), pp. 165-171.

"Spheres of Ecosystem Response to Nitrogen (SERN): A case study in a Mediterranean-type ecosystem in Spain". In: Portier et al. (Eds.) *Ecosyst. Health & Manage.* 2003, p. 500000. Forays into ecological dynamics and ecology. In: Wissenschaften BAD (ed.) Rundgespräche der Kommission für Ökologie: Ökologische Rolle der Flechten, vol 36. Peter Möller, pp 129-141.

DGF-Project on "Changing ground water levels: the impact on an invasive species and native plant communities in a Mediterranean dune ecosystem". In: Osso da Belén, Portugal WE 2681/3-11, in collaboration with CBA and Universities involved critical levels of atmospherically ammonia for lichen diversity in cork-oak woodland, Portugal. In Springer 109-119: Sutton M.A., Reis S., Baker S.M.H. (eds.) Atmospheric Ammonia - Detecting emission changes and environmental impacts. Results of an Expert Workshop under the Convention on Long-range Transboundary Air Pollution

DGF-Project on "Partitioning seasonal changes in carbon fluxes of a Mediterranean woodland into photosynthetic and respiratory components by stable isotope analysis – ISOFUX" in Portugal (WE 2681/2-1, 2-2), in Collaboration with CBA and Universität Bréileng, W. 2008 Competitive balance between the alien invasive *Quercus longifolia* and native mediterranean dune species. In Plant Invasions: Human perception, ecological impacts and management. Eds. Tokarska-Guzik, B., Brock, J., Brundu, G., Child, L., Daehler, C. & Pineau Pysek, P. Backhuys Publ., Leiden, The Netherlands. P: 261-275

Accção Integrada Luso-Española (CRUP) com o Departamento de Biología Vegetal y Ecología da Faculdade de Biología da Universidade de Sevilla no projecto sobre "Comparación da estrutura da vegetação em ecossistemas dunares da costa atlântica peninsular. Análise de tipos funcionais e ecológicos da vegetação. Uso das espécies como indicadores ambientais de carbono e water sources." Stable isotopes as tracers of ecological change" by Todd Dawson and Rolf Siegwolf (eds.). Elsevier Academic Press, 1ª edição, secção nº2 cap.6:77-92.

"Caracterização da flora e vegetação da área do Paisagem Protegida da Arriba Fóssil da Costa da Caparica e do Parque Natural do Vale do Côa, Alentejo". Máguas C., Correia A.I. & Correia A.O. 2000 Temporal dynamics in CO₂ respiration in response to environmental changes. In: Stable isotopes as Tracers of Ecological Change Eds. T. Dawson and R. Siegwolf. Elsevier Academic Press, 1ª edição, secção nº4 cap.13:193-210.

"Implementation of a multidisciplinary tool for the evaluation and management of air quality and the social impacts in the region of Sintra". Portuguese Environment Programme (POTEPV/P000809) Em colaboração com o MLJB; Fundação Instituto Superior Técnico; Lourenço M.C.; ICAT, Escolar Editora, Lisboa. Pp= 339-355

Instituição coordenadora: DRAOTA (Direcção Regional do Ambiente e Ordenamento do Território do Alentejo). Coordenação: Dr.ª Maria Augusta DRADTA: Dr.º Sérgio C., Carolo M., Afonso A.C. & Martins Louçã M.A. 2011 Quarry rehabilitation: a case study. In: ECOSystems and Sustainable Development III. Advances in Ecological Systems ed. G. Villacampa, C.A. Brebbia, & J.L. Usó. (eds). Wit Press. Southampton, Boston. Pp: 331-346.

"Assessing key habitat loss due to eutrophication in the Mondego and Mira estuaries". IMAR. Em colaboração Werner K.F. Freyberger, S. Cereja, P.P. Helena Máguas C., Correia A.I. & Correia A.O. 2000 Restoration of disturbed areas in the Mediterranean – a case study in a limestone quarry. In: Sustainable Land-Use in Deserts Beddes, S.W. Yeste, & Wucherer W. (eds). Springer Verlag, Stuttgart. Pp 363-376

Evaluation and monitoring biological conservation of intertidal depressions in OSSO da Belén (Fombal)". Em colaboração com a TRANSGAS S.A. e ICAT. Coordenação: Prof. Dr.ª Maria Amélia Martins-Louçã, Brugnoli E., Scartazza A., Lauteri M., Monteverdi M.C. & Máguas C. 1998 Carbon isotope discrimination in structural and non-structural carbohydrates in relation to productivity and adaptation to unfavourable conditions for stable isotopes integration of biological, ecological and geochemical processes. Griffiths (HPL-RFN-99-09). Other Participants: Cambridge University (GB), CNR's Istituto per l'Agricoltura, Environmental Sciences and Energy' Division of the Wilmann Institute of Science, Unité Ecophysiologie Matière de l'IRISA France, Botânica Argentina Biológico Instituto Superior del Uruguay, Lehrstuhl Wasserbau und Quantitative Struktur in den Pflanzenwissenschaften des Universität Bonn, Berlin and other participants (NL), ICA-T. Coordenação Nacional: Prof. Dr.ª Margarida Chaves.

Máguas C., Brugnoli E. & Catarino F. 1995 Gas exchange and carbon isotope discrimination cross lichen releases dependent of the age of acclimation to open spaces for lichens and photosynthesis of mosses since the late Boscian period. In: *MNRW* 52(3) 1995, Editorial Board and Institut IMAR, Pereira Duarte Eng. e Construções S.A., Universidade de Aveiro, ICAT. Coordenação: Prof. Maria da Conceição Freitas.

Máguas C., Griffiths H., Ehleringer J. & Serodio J. 1993 Characterization of photobiont associations in lichens using carbon isotope discrimination techniques. In: Ehleringer J., Hall & G. Farquhar, eds. Physiological Ecology of Desert Plants. University of Arizona Press (UAPress), Tucson, Arizona, Universidade de Lisboa, 201-2 Instituto de Ciências da Terra e do Espaço (ICTE), Instituto Tecnológico Nuclear (ITN), Universidade de Aveiro (UA), Instituto de Ciências Biomédicas Abel Salazar (ICBAS), Teixeira Duarte, S.A. (TD), ICAT. Coordenação: Brugnoli E., Máguas C., Seneca A., Sergio C., Catarino F. & Kratz W. 1990 Heavy metal and chlorophyll analysis in *Sphagnum auriculatum*, transplants along the river Ave (Portugal). In: Barceló J, ed. Environmental Contamination. Barcelona: CEP Consultants, 626-628.

Artigos em revistas de circulação internacional com arbitragem científica

Analisado pelo Comité Científico Interdisciplinar (CECI) da Comissão Europeia, em contraponto com os dados técnicos, (DAR) da rede de Aveiro, Instituto de Conservação da Natureza e paisagem (ICNP), Pereira Duarte Geral das Florestas. Coordenação: Associação de Produtores Florestais da Península de Setúbal (AFLOPS). Augusto S., Pereira M.J., Máguas C. & Branquinho C. 2013. A step towards the use of biomonitors as early warning of atmospheric PAHs for regulatory purposes. *Chemosphere* 92(5): 626-632. (IF= 3.137)

Accção Integrada Luso-Espanhola (CRUP) com o Departamento de Biología Vegetal y Ecología da Faculdade de

[illegible]

- Augusto S., Máguas C., Matos J., Pereira M.J. & Branquinho C. (2010). Lichens as an integrating tool for monitoring PAH atmospheric deposition: a comparison with soil, air and vegetation. *Environmental Pollution*, 158 (2): 483-489. (IF=3.135)
- Augusto S., Máguas C., Branquinho C. (2009). Understanding the performance of different lichen species as biomonitors of atmospheric dioxins and furans: potential for intercalibration. *Ecotoxicology*. 18: 1036-1042. (IF=2.355)
- Rascher K.G., Máguas C., Correia O. & Werner C. (2009). Tracing seasonal changes in water use of an invasive Acacia and a native pine in southern Portugal by measurement of sap flow. *Acta Horticulturae (ISHS)*, 846:209-216.
- Unger S., Máguas C., Pereira J.S., Aires L., David T.S. & Werner C. (2009). Partitioning carbon fluxes in a Mediterranean oak forest to disentangle changes in ecosystem sink strength during drought. *Agriculture and Forest Meteorology*, 149: 949-961. (IF=3.668)
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11: Línguas

Língua	Leitura	Escrita	Conversação
Português	Excelente	Excelente	Excelente
Inglês	Excelente	Excelente	Excelente
Francês	Excelente	Elementar	Excelente
Espanhol (Castelhano)	Excelente	Elementar	Excelente
Italiano	Excelente	Elementar	Excelente

