

PEERS – Platform for Enhancing Ecological Research & Sustainability

**(Plataforma para o Desenvolvimento da Investigação em Ecologia e
Sustentabilidade)**

**Azorean Biodiversity Group (CITA-A)
Grupo da Biodiversidade dos Açores (CITA-A)**

2014 Annual Report

Leader: Paulo A. V. Borges

Research Area: Biological Sciences

Home Institution: Dep. de Ciências Agrárias, Dep de Biologia, Dep. de Ciências de Educação, Universidade dos Açores



Governo dos Açores

Angra do Heroísmo & Ponta Delgada, February 2015

Azorean Biodiversity Group (CITA-A)
Grupo da Biodiversidade dos Açores (CITA-A)

2014 Annual Report

Executive Summary

- In the end of 2013 the Azorean Biodiversity Group was invited to become part of another FCT center, the **CENTRE FOR ECOLOGY, EVOLUTION AND ENVIRONMENTAL CHANGE** (cE3c), based in Lisbon. cE3c's main objective is to perform research that addresses societal challenges in ecology, evolution and the environment—the three Es in the centre's name, for the 2015-2020 period covering the EU 2020 Horizon.
- In December 2014 the FCT awarded the Classification of EXCELLENT to the Centre for Ecology, Evolution and Environmental Changes (cE3c), having been the Azorean Biodiversity Group researchers included in this evaluation. Our 19 integrated members with Ph.D., Ph.D. students and collaborators, will be now part of a larger research centre, based in Lisbon, with 101 integrated members in which research questions will be addressed at both the continental and insular scales.
- During 2014 our affiliation was still associated with our past FCT research centre CITA-A. Main achievements by integrated members in 2014 included 97 publications, 39 of which in International Indexed Journals with Impact Factor (41%). The mean Impact Factor in 2013 in SCI Journals was 2.13, being 14 the publications in the first quartile (36% of the SCI publications).

Sumário Executivo

No final de 2013 o Grupo da Biodiversidade dos Açores (CITA-A) foi convidada para fazer parte de um outro centro FCT, o **CENTRE FOR ECOLOGY, EVOLUTION AND ENVIRONMENTAL CHANGE/ Centro de Ecologia, Evolução e Alterações Ambientais** (cE3c). O principal objetivo do cE3c é a realização de investigação que aborde os desafios sociais em ecologia, evolução e o ambiente, para o período 2015-2020 que cobre o horizonte da UE para 2020.

Em dezembro de 2014, a FCT concedeu a Classificação de **excelente** para o Centro de Ecologia, Evolução e Alterações Ambientais (CE3C), tendo sido os investigadores do Grupo da Biodiversidade dos Açores Grupo incluídas nesta avaliação. Os nossos 19 membros integrados com doutoramento, a que se adicionam os alunos de doutoramento e colaboradores fazem agora parte de um grande centro de investigação, com sede em Lisboa, com 101 membros integrados, em que as questões de investigação serão abordados tendo em consideração as escalas continentais e insulares.

Durante 2014 nossa afiliação foi ainda associada com o nosso anterior centro de investigação FCT, o CITA-A. Durante o ano de 2014 gostaríamos de realçar a publicação de cerca de 97 trabalhos científicos, 39 dos quais em revistas internacionais indexadas com Fator de Impacto (41%). O Fator de Impacto médio em 2013 em SCI Journals foi de 2,13, sendo 14 as publicações no primeiro quartil (36% das publicações SCI).

Research Group Description and Achievements for 2014

INTRODUCTION

Researchers that compose the Azorean Biodiversity Group (ABG) have complementary expertise that allow to address research questions framed in the study of biodiversity patterns (taxonomic, functional and phylogenetic diversity), and its changes under the impact of climatic changes, land use alterations, and species invasions, which is key for guidelines of management and conservation. Emphasis are also given on the implementation of communication strategies and instruments to be used in participated risk appraisal, characterization and evaluation processes intended to facilitate the governance of the risk of environmental hazards, climate change and to increase social efficacy in the regions' conservation of nature.

The ABG has had a steady growth in the number of funded projects, publications and personnel over these last seven years (2008-2014), increasing from six integrated members in 2008 to the current 19. In this period 25 senior researchers participated in the ABG —ten with an academic position, one with a research contract, and 14 post-doctoral grant holders. In addition, 23 Ph.D. students and 13 research grant holders worked with the senior researchers. ABG also included 18 International collaborators as Associated Research Fellows which have been collaborating in several projects and publications.

The Group employed an integrated approach that combined multi-spatial and temporal scales (scale has a profound effect on detecting ecological and evolutionary patterns) with multi-metric measures of biodiversity (taxonomic, functional, phylogenetic) and their inter-relationships. It holds unique standardized databases from the last 13 years for arthropods (BALA, ISLANDBIODIV and EDEN), bryophytes (MOVECLIM altitudinal gradients database), and vascular plants (ISLANDBIODIV).

Spreading its acquired knowledge both within the scientific community and to the general public, has been important for the ABG group in these last six years. ABG's interdisciplinary approach integrating science and education allowed the creation of six web-based resources.

The research produced by the ABG was crucial for wildlife conservation in Azorean natural habitats and the management of invasive species, some of which are useful for economic development. The Azorean government relied on ABG for accurate information for the establishment of protected areas (Parque de Ilha).

The year of 2014 was another excellent year for the Azorean Biodiversity Group (ABG-CITA-A). The balance of the members of the ABG is good, especially those enrolled in Doctoral Programs. It is particularly encouraging that the turnover in this latter group of researchers is predictably high, with a high and growing number of new students registering in 2012-2014. There is a healthy number of Associate Scientists including an international component as well as scientists who were formerly registered as doctoral students or Post-doctoral researchers.

Between the years of 2008 and 2014 the Azorean Biodiversity Group (ABG) contributed to the CITA-A vision and mission, by conducting research on oceanic islands used as natural labs for testing ecological theory to understand how human activities and natural processes interact under global changes.

Now, the great novelty is the fact that of Azorean Biodiversity Group belongs to another FCT center, the **CENTRE FOR ECOLOGY, EVOLUTION AND ENVIRONMENTAL CHANGE** (cE3c), based in Lisbon. cE3c's main objective is to perform research that addresses societal challenges in ecology, evolution and the environment—the three Es in the centre's name, for the 2015-2020 period. Our 19 integrated members with Ph.D., plus Ph.D. students and collaborators will be now part of a larger research centre, with 101 integrated members in which research questions will be addressed at both the continental and insular scales. We kept our participation in CITA-A during

2014, a year of transition, and enhance our activity in the Portuguese Platform for Enhancing Ecological Research & Sustainability (PEERS) network (<http://www.gba.uac.pt/plataforma/>).

In December 2014 FCT awarded the Classification of EXCELLENT to the Centre for Ecology, Evolution and Environmental Changes (CE3C), having been the 19 Azorean Biodiversity Group researchers included in this evaluation, which was a great achievement for all of us.

TEAM in 2014

(see also <http://www.gba.uac.pt/quem/equipa.php>)

The ABG has had a steady growth in the number of funded projects, publications and personnel over these last five years, increasing from eight integrated members with Ph.D. in 2008 to the current 19.

In 2014 the group was composed by 19 senior researchers with Ph.D., nine of whom have academic positions at the University of Azores, one a position in a State Laboratory (LNEC), eight hold post-doctoral grants (five funded by Azorean Government FRCT and three funded by FCT) and one is a Research technician (funded by Azorean Government FRCT). The groups included in 2014 a total of 21 Ph.D. students (11 with FRCT(8) or FCT(3) grants) and nine research grant holders. In addition, 16 Associated Research Fellows from several countries collaborate on different projects, creating a network of Island research investigators.

Integrated members with Ph.D. (19)

Director:

Paulo A. V. Borges (Univ. Azores, DCA)

Scientists with contract

Ana Moura Arroiz (Univ. Azores, DCE)
António Onofre Soares (Univ. Azores, DB)
David Horta Lopes (Univ. Azores, DCA)
João Pedro Barreiros (Univ. Azores, DCA)
Lina Nunes (LNEC)
Patrícia Ventura Garcia (Univ. Azores, DB)
Rosalina Gabriel (Univ. Azores, DCA)
Rui Bento Elias (Univ. Azores, DCA)
Virgílio Vieira (Univ. Azores, DB)

Post-Docs:

Artur Gil (Univ. Azores, DB), Funded by FRCT
Carla Rego (Univ. Azores, DCA), Funded by FCT
François Rigal (Univ. Azores, DCA), Funded by FCT
Isabel Amorim (Univ. Azores, DCA), Funded by FRCT
Isabel Borges (Univ. Azores, DB), Funded by FRCT
José A. P. Marcelino (Univ. Azores, DB), Funded by FRCT
Margarita Patricia Florencio Diaz (Univ. Azores, DCA), Funded by FRCT
Mário Boieiro (Univ. Azores, DCA) (Starting in 2013), Funded by FCT

Grant Students:

Maria Teresa Ferreira (Univ. Azores, DCA)

Other Integrated members

Ph.D. Students:

Ana Picanço (Univ. Azores, DCA), Funded by FRCT (M3.1.2/F/031/2011)
Carolina Parelho (Univ. Azores, DB), Funded by FRCT (M3.1.2/F/048/2011)
Christiana Faria (in collaboration with other research Center in UK)
Débora Henriques (Univ. Azores, DCA), Funded by FRCT (M3.1.2/F/051/2011)
Dinis Pereira (in collaboration with other research Center in PT) (funded by FCT)
Diana Paula Linhares (in collaboration with other research Center in PT)
Lara Silva (started in 2013) (Self-funded)
Lisa Adelaide Toste (in collaboration with other research Center in PT)

Lurdes Silva (started in 2013) (Self-funded)
Márcia Coelho (Univ. Azores, DCA), Funded by FRCT (M3.1.2/F/007/2012)
Marta Costa (Univ. Azores, DCA), Funded by FRCT (M3.1.2/F/053/2011)
Orlando Guerreiro (Univ. Azores, DCA) , Funded by FRCT (M3.1.5/F/003/2011)
Reinaldo Pimentel (Univ. Azores, DCA) Funded by FCT (SFRH/BD/81079 / 2011)
Rita Godinho (Univ. Azores, DCA), Funded by FRCT (M3.1.2/F/030/2011)
Rui Nunes (Univ. Azores, DCA), Funded by FRCT (M3.1.2/F/035/2011)
Ruben Abreu (Univ. Azores, DCA) (Self-funded)
Sílvia Calvo Aranda (in collaboration with other research Center in Spain)
Sofia Terzopoulou (in collaboration with other research Center in Greece)
Sónia Duarte (LNEC, Lisbon) Funded by FCT (FRH/BD/84920/2012)
Tânia Ferreira (started in 2010) (Self-funded)
Thomas Matthews (in collaboration with other research Center in UK)

Grant Students:

Ana Isabel Cabral (“Recuperar Progam - Azorean Government”)
Enésima Mendonça (Univ. Azores, DCA) (Funded by FRCT)
Hugo Silva (“Recuperar Progam - Azorean Government”)
Joana Lourenço (“Recuperar Progam - Azorean Government”)
Lúcia Silveira (Univ. Azores, DCA) (Project grant)
Luís Barcelos (“Recuperar Progam - Azorean Government”)
Nídia Homem (Univ. Azores, DCA) (Project grant)
Rui Carvalho (Univ. Azores, DCA) (Funded by FCT)
Sílvia Silva (“Recuperar Progam - Azorean Government”)

Technicians:

Fernando Pereira (Univ. Azores, DCA)
Paulo Rogério Silva (Univ. Azores, DCA)

Associate Research Fellows:

Alain Vanderpoorten (University of Liege) – Collaboration in the Biogeography of
Azorean Bryophytes

Ana Margarida Santos (Past Ph.D. Student), collaborator based in the Natural History Museum of Madrid and team member in the Project PTDC/BIA-BIC/119255/2010 – “Biodiversity on oceanic islands: towards a unified theory”

Aris Parmakelis (University of Athens) and team member in the Project PTDC/BIA-BIC/119255/2010 – “Biodiversity on oceanic islands: towards a unified theory”

Clara S. Gaspar (Past Ph.D. Student and past Post-Doc, based now in Finland), current collaborator in Macroecology

François Guilhaumon (Ecosym, Univ of Montpellier), collaborator in Macroecology

Jairo Patiño (University of Liege) – Collaboration in the Biogeography of Azorean Bryophytes

Joaquín Hortal (Past Post-Doc), collaborator in Macroecology and based in the Natural History Museum of Madrid

Jorge M. Lobo, collaborator in Macroecology and based in the Natural History Museum of Madrid

José Carlos Carvalho, collaborator in Macroecology (Independent researcher).

Kostas Triantis (Started in 2013 after finishing his Post-Doc contract), collaborator in Island Biogeography and based in the University of Athens, Greece

Luís Crespo (Started in 2013 after finishing his Grant), collaborator in Spider Taxonomy

Pedro Cardoso (Started in 2013 after finishing his Post-Doc contract). collaborator in Macroecology and based in the Finish Museum of Natural History

Rudolf Scheffrahn, collaborator in Termite ecology and based in University of Florida (USA)

Sérvio P. Ribeiro, collaborator in Canopy ecology and based in Universidade Federal de Ouro Preto (UFOP), Brasil.

Simone Fattorini, collaborator in Island Biogeography (Independent Researcher based in Rome, Italy)

PUBLICATIONS

YEAR 2014

Main achievements by integrated members in 2014 were the publication of 97 works, 39 of which being in International Indexed Journals with Impact Factor (41%). The mean Impact Factor in 2014 was 2.13, being 14 the publications in the first quartile (36% of the SCI publications).

We also published one authored Book and two Books as editors, three book chapters, 15 outreach publications, 13 papers in peer-reviewed journals with no impact factor, 15 papers in Proceedings of Symposia and nine other type of publications (see Fig. 1).

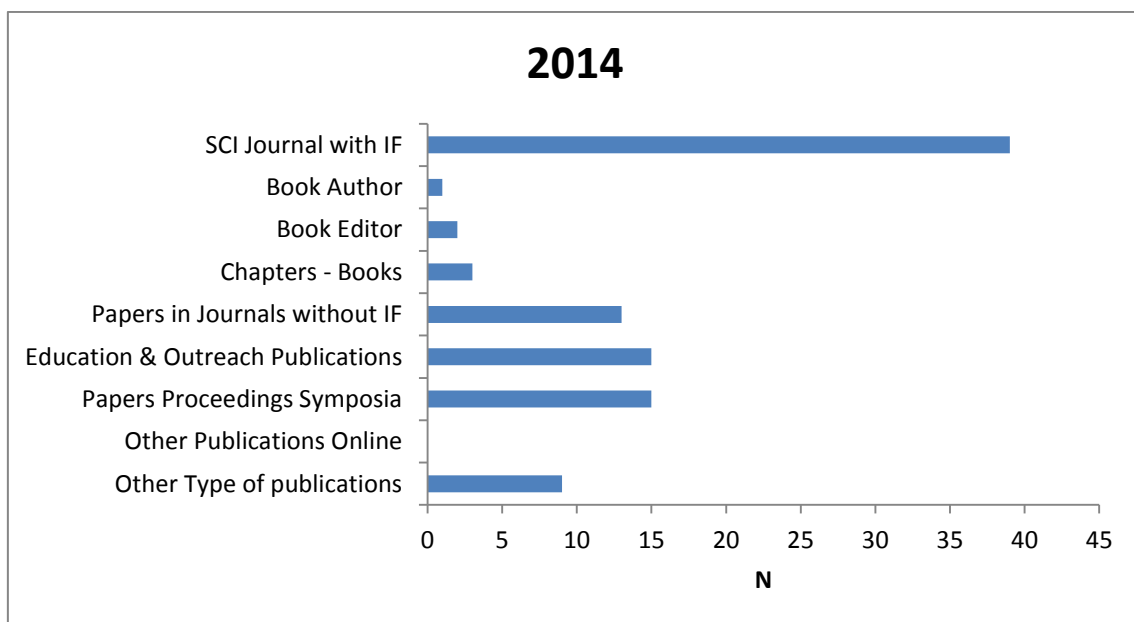


Figure 1. Number ou publications on the year of 2014 in the several possible categories.

This makes more than five publications by integrated member with a Ph.D., and about 2.0 SCI papers per integrated member with a Ph.D.

To those 97 publications we can add 23 more with the affiliation of the ABG

(CITA-A, University of Azores) published only by our Associate Research Fellows (19 SCI papers; one book chapter, two papers in Journals without IF; and one other type of publications). We must highlight the contribution of our collaborator Simone Fattorini, a freelance investigator based in Rome (Italy) that has been contributing with many publications. The publications by collaborators are promoting the internationalization of the ABG (CITA-A, University of Azores) and increasing the visibility of the group.

In summary the publications in 2014 were:

By integrated members (Total = 97)

INTERNATIONAL PEER REVIEWED PAPERS (SCI Journals) = 39

BOOKS = 3

BOOK CHAPTERS = 3

OTHER PEER REVIEWED PAPERS = 13

PAPERS ON PROCEEDINGS OF SYMPOSIA = 15

EDUCATION & OUTREACH PUBLICATIONS = 15

OTHER TYPE OF PUBLICATIONS = 9

By Associate Research Fellows (Total = 23)

INTERNATIONAL PEER REVIEWED PAPERS = 19

BOOK CHAPTERS = 1

OTHER PEER REVIEWED PAPERS = 2

OTHER TYPE OF PUBLICATIONS = 1

The detailed output of publications in 2014 for each integrated member with Ph.D. is given in Table 1. Remarkably, seven researchers had more than ten publications and a total of twenty researchers participated in at least two publications of the SCI.

Table 1. Number of publications for each researcher in 2014 for the different type of publication categories.

Authors	Status	Non							Total
		SCI Papers	Books	Book Chapt	SCI Papers	Outreach Publ	Other Publ	Proc. Symp	
Borges, P.A.V.	PI - UA	13	1		5	4		2	25
Fattorini, S.	Ass. Coll	16		1	2		1		20
Barreiros, J.P.	PI - UA	7			3	1	5		16
Cardoso, P.	Ass. Coll	8	1		2	3			14
Gabriel, R.	PI - UA	3		1	2	3		3	12
Garcia, P.	PI - UA	2	1	1		2	2	4	12
Gil, A.	Post_Doc	4		1	4	1	1	1	12
Nunes, L.	PI - LNEC	4	1					4	9
Crespo, L.C.	Ass. Coll	2	1		1	2			6
Matthews, T.J.	Ph.D. Stud	5			1				6
Arroz, A.M.	PI - UA	1		1		2		1	5
Boieiro, M.	Post_Doc		1		2	2			5
Lopes, D.H.	PI - UA	1				1		3	5
Rego, C.	Post_Doc		1		2	2			5
Elias, R.B.	PI - UA	1			2	1			4
Patiño, J.	Ass. Coll	4							4
Rigal, F.	Post_Doc	4							4
Triantis, K.A.	Ass. Coll	4							4
Amorim, I.	Post_Doc	1			1	1			3
Carvalho, J.C.	Ass. Coll	3							3
Florencio, M.	Post_Doc	2				1			3
Guerreiro, O.	Ph.D. St.	3							3
Henriques, D.	Ph.D. St.				1			2	3
Parelho, C.	Ph.D. St.	1					1	1	3
Pereira, F.	Technician		1		1	1			3
Pimentel, R.	Ph.D. St.	1						2	3
Vanderpoorten, A.	Ass. Coll	3							3
Aranda, S.C.	Ph.D. St.	2							2
Coelho, M.C.M.	Ph.D. St.				1			1	2
Ferreira, M.T.	Post_Doc	2							2
Gaspar, C.	Ass. Coll				2				2
Guilhaumon, F.	Ass. Coll	2							2
Hortal, J.	Ass. Coll	1				1			2
Santos, A.M.C.	Ass. Coll	1				1			2
Borges, A.	Grant St.	1							1
Borges, I.	Post_Doc					1			1
Duarte, S.	Ph.D. St.	1							1

Ferreira, F.	Grant St.	1		1
Homem, N.	Grant St.		1	1
Lobo, J.M.	Ass. Coll	1		1
Marcelino, J.A.P.	Post_Doc	1		1
Marcos, R.S.	Grant St.	1		1
Melo, C.	Ass. Coll	1		1
Mendonça, E.	Grant St.		1	1
Neilson, A.L.	Post_Doc		1	1
Ponte, N.B.	Grant St.	1		1
Ribeiro, S.P.	Ass. Coll		1	1
Scheffrahn, R.H.	Ass. Coll	1		1
Soares, A.O.	PI - UA	1		1
Terzopoulou, S.	Ph.D. St.	1		1

There was a steady increase in the number of publications in the last seven years in Journals with Impact Factor of the SCI (Fig. 2), with a maximum value of 39 in the current year (2014). The years of 2011, 2012 and 2014 were particularly productive.

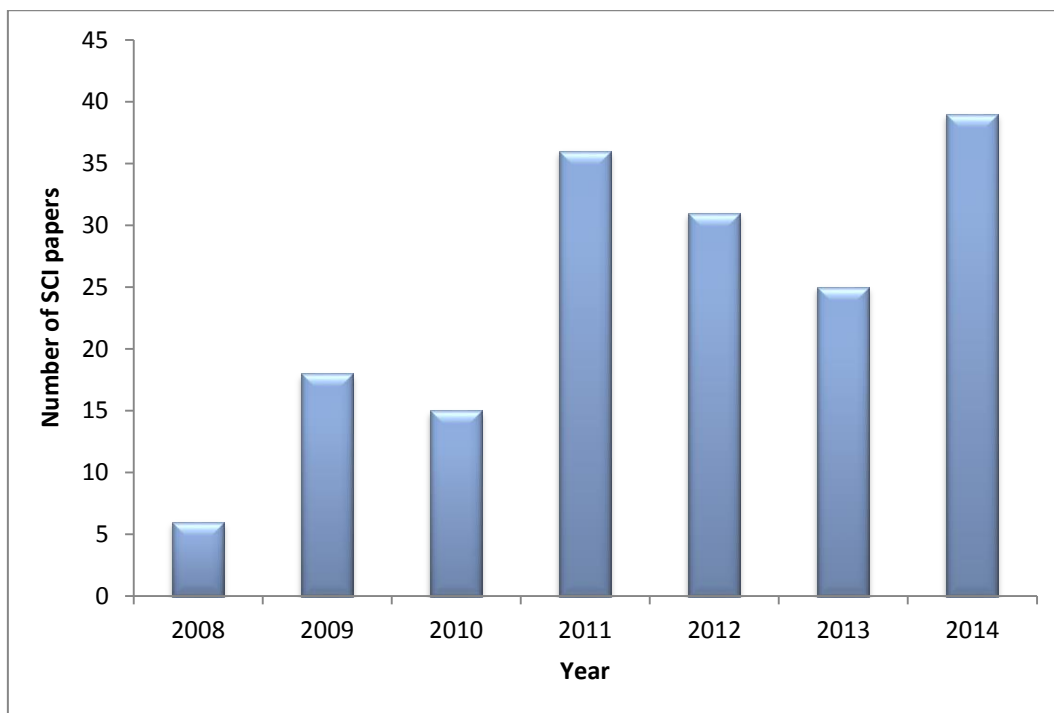


Figure 2. Number of papers in Journals of the SCI in the period 2008-2014.

PROJECTS

2008-2014

Since in 2014 there were no calls for projects we present below the situation between 2008 and 2013 since many projects finished in- 2014 or are about to finish early in 2015.

Fifty eight projects run in 2008-2014, 45 of which were coordinated by integrated members: 14 received international funding, 12 received national funding (eight by FCT) and 32 received regional funding (21 by DRCT and 11 more projects were funded by other Agencies). These 58 projects brought about € 2.408.993,00 Euros to the group. In Figure 3 we see that most of these projects started in 2009, 2010 and 2012.

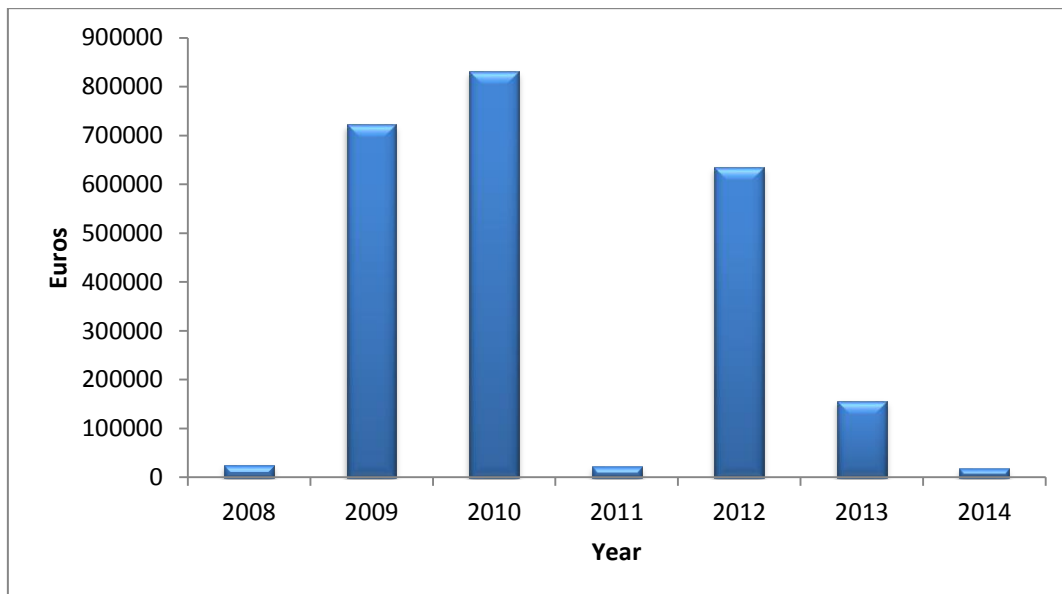


Figure 3. Funding obtained in the 58 projects in the period 2008-2014. Each bar is the sum of the total budget of the projects started in a particular year.

These 58 projects include ten service acquisition projects, being the budget distribute as follows: € 432.883,00 in service acquisition and € 1.976.110,00 in research projects.

To these projects we must also add the funds obtained for Ph.D. and Pos-Doc

Grants, which totalled €_1.314.720,00 in 23 grants (13 Ph.D and 10 Post-Docs).

If we consider three types of funding, i.e. research projects, grants and service acquisition, in total we received almost 4 million Euros in the period 2008-2014, more precisely € 3.723.713,00 (Fig. 4). As shown in Figure 4 most grants were obtained in 2012 although every year we obtained grants. Most of the money obtained in service acquisition was based in contracts starting in 2010.

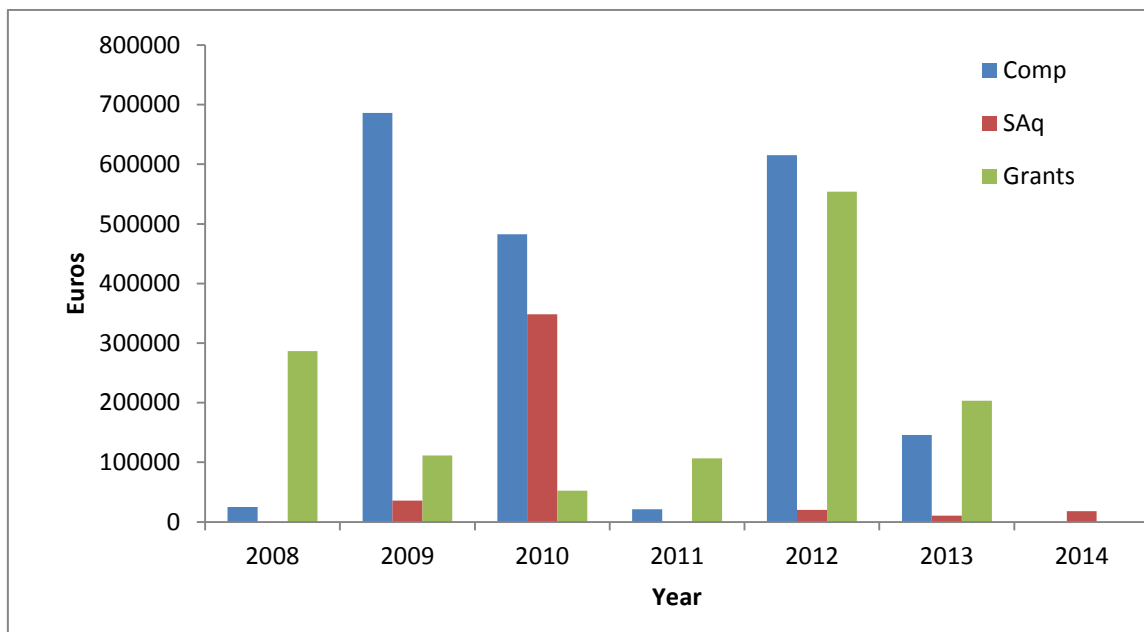


Figure 4. Funding obtained in the 58 projects and 23 Grants (Ph.D and Post-Docs) in the period 2008-2014. Each bar is the sum of the total budget of the projects started in a particular year. Comp – research projects; SAq = service acquisition; Grants = Ph.D. and Post-doc grants.

The coordination of the 45 out of the 58 projects was distributed by 13 PIs (see Table 4)

Table 4. The number of projects coordinated by each PI between 2008 and 2014.

Members	2008	2009	2010	2011	2012	2013	2014	Grand Total
Borges, P.A.V.		5	5		5	1	2	18
Neilson, A.L.	1		3	2				6
Lopes, D.H.		2	1	1	1			5
Gabriel, R.		2			1	1		4
Soares, A.O.		1			2	1		4
Arroz, A.M.			1		1			2
Borges, I.						1		1
Cardoso, P.		1						1
Costa, M.						1		1
Elias, R.B.					1			1
Garcia, P.					1			1
Triantis, K.A.					1			1
Ventura, L.				1				1

Analysing the main funding institutions (Fig. 6) we can highlight the growing contribution of FCT between 2008 and 2010, and the important contribution of regional projects (DRCT and FRCT) in the year of 2012. The contribution of Azores regional funds (DRCT, FRCT and most of the Others) was 51% of the total funds raised by the Azorean Biodiversity Group, FCT contributed with 33% and international projects contributed with 16% (Fig. 7).

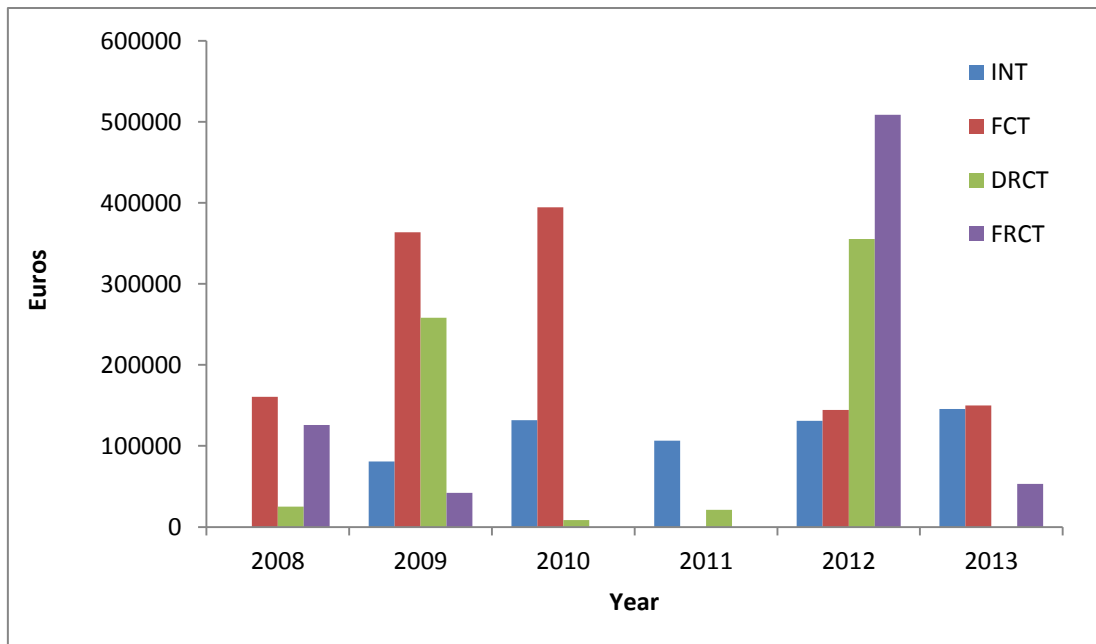


Figure 6. Funding obtained in the 58 projects and 23 Grants (Ph.D and Post-Docs) in the period 2008-2013 in different funding institutions. Each bar is the sum of the total budget of the projects started in a particular year. Int – international projects; FCT = Portuguese Science Foundation; DRCT= Azores Science Foundation; FRCT = Azores Fund for Grants.

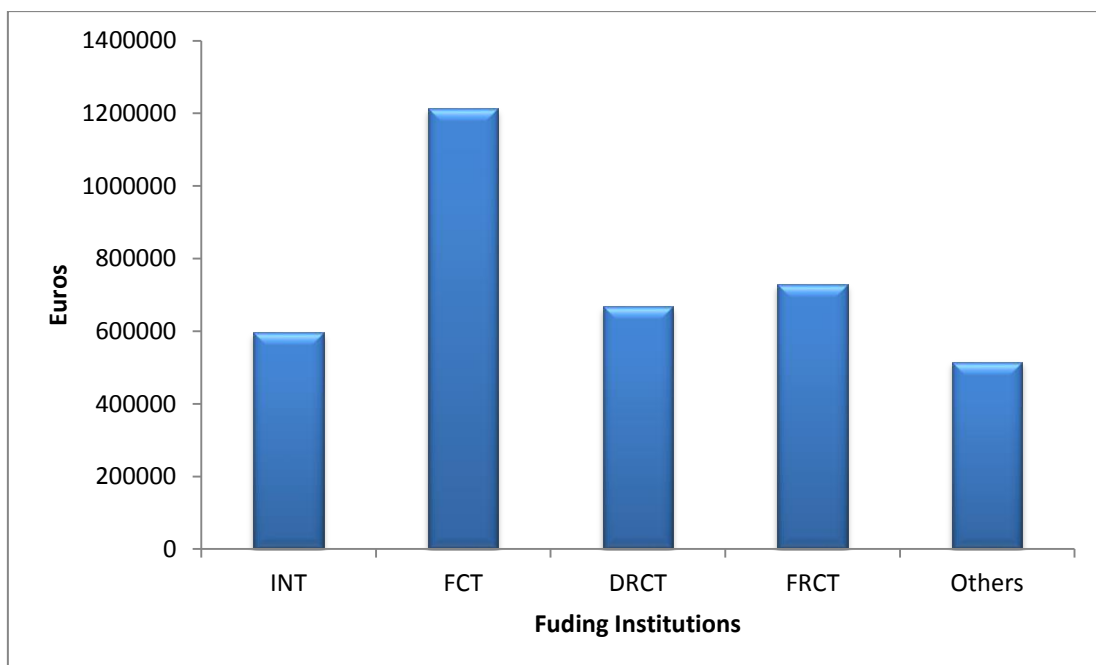


Figure 7. Funding obtained from the 58 projects and 23 Grants (Ph.D and Post-Docs) in the period 2008-2014 in different funding institutions. Each bar is the sum of the total budget of the projects. Int – international projects; FCT = Portuguese Science Foundation; DRCT= Azores Science Foundation; FRCT = Azores Fund for Grants.

We must highlight several research contracts with national and international entities:

- 1) PEERS (starting in 2013)– Platform for Enhancing Ecological Research & Sustainability, a consortium between the Center of Environmental Biology (University of Lisbon, Portugal), the Azorean Biodiversity Group (University of the Azores, Portugal) and the Center of Functional Ecology (University of Coimbra, Portugal).
- 2) NATURE PARKS OF AZORES (starting in 2012)– We started an unprecedented collaboration with several Azorean environmental organizations to perform a Long Term Ecological Study in the natural forest of several Azorean islands. This study is possible due to the collaboration with the Natural Parks of Santa Maria, Terceira, Faial, Flores and Pico islands, the Botanical Garden of Faial island and the Furnas Monitoring and Research Centre (São Miguel island) and the SPEA.
- 3) BIG – Biodynamical Island Group (starting in 2013) – This is an International consortium research group implemented to model the General Dynamic Model of Island Biogeography. It includes 14 international Researchers, where six of them are either integrated members (P.A.V. Borges, F. Rigal, I.R. Amorim), Ph.D. students (T. Matthews) or collaborators (K. Triantis, R. Whittaker) of the Azorean Biodiversity Group.
- 4) Development and Coordination for “RCE Açores” (starting in 2009)- part of UN international education network Regional Centre of Expertise on Education for Sustainable Development, accredited by the –United Nations University, Institute Of Advanced Studies.

Web-based resources in the Period 2008-2014

- Azorean Biodiversity Group Page (<http://www.gba.uac.pt/>)
- Azorean Biodiversity Portal (<http://www.azoresbioportal.angra.uac.pt/>)
- Azorean Biodiversity Gallery (<http://galeria.azoresbioportal.angra.uac.pt/>)
- ATLANTIS database (<http://www.atlantis.angra.uac.pt/>)
- Azorean Spiders: (<http://www.jorgenlissner.dk/azoreanspiders.aspx>)
- Termites of the Azores (<http://sostermitas.angra.uac.pt>)

- E.D.E.N – Azores Habitats (<http://www.eden-azores.com/>)

AWARDS

The “Azorean Biodiversity Group Prizes”, is an initiative of the group to highlight excellence in research and give larger visibility to outstanding members. So far this initiative occurred in 2012, 2013 and 2014. Below the complete list of awards for 2014:

“The Most Productive Young Researcher 2014” Award to Artur Gil

(<http://www.gba.uac.pt/quem/ver.php?id=84>)

(This prize will be awarded every two years to the most productive young researcher of the ABG Group, a Post-Doc and Ph.D. student interchangeably)



Artur Gil was the most productive post-doc young researcher of the ABG Group in last years, with six SCI papers in 2014 and 15 SCI papers since 2011. Artur Gil is a Post-Doctoral Research Scientist in Remote Sensing of the Environment being based in the Department of Biology of the University of the Azores. His current research is focused on the use of Satellite Remote Sensing and Data Modelling for decision support on Land Management and Environmental Planning in Macaronesian Islands.

“BALA –Biodiversity of Arthropods from Laurisilva of Azores 2014” Award to Kostas A. Triantis (<https://sites.google.com/site/triantiska/>)

(This prize will be awarded every year to the most influent researcher generating data or analyses in the BALA Project)



Kostas A Triantis started his independent scientific career in Univ. of Oxford U.K. (February 2007 to July 2008) as a Marie-Curie Research Fellow. He started a Post-Doc in Univ. of Azores in November 2008 and in the following years participated in three of the ten Most Cited papers of the ABG (<http://www.gba.uac.pt/noticias/ver.php?id=133>). He also led one of the most influential papers of ABG, published in 2010 in *Ecography* (*). Between 2009 and 2013 Kostas Triantis participated on 26 publications affiliated to ABG, 20 of them in SCI Journals. He also actively participated in the writing of two successful FCT competitive projects, one of them to resample 30 BALA plots in 2010. Kostas is now an Assistant Professor at the Department of Biology of the University of Athens (Greece).

*Triantis, K.A., Borges, P.A.V., Ladle, R.J., Hortal, J., Cardoso, P., Gaspar, C., Dinis, F., Mendonça, E., Silveira, L.M.A., Gabriel, R., Melo, C., Santos, A.M.C., Amorim, I.R., Ribeiro, S.P., Serrano, A.R.M., Quartau, J.A. & Whittaker, R.J. (2010). Extinction debt on oceanic islands. *Ecography*, **33**: 285-294. DOI: 10.1111/j.1600-0587.2010.06203.x. (IF2013: **4.207**; **Q1 Ecology**) (<http://hdl.handle.net/10400.3/1712>)

“The Events 2014” Award to Enésima Mendonça, Artur Gil, Carla Rego and Orlando Guerreiro.

(This prize will be awarded every year to the investigator(s) that led an event of high relevance promoting the visibility of ABG)



This year the prize goes for the main promoters of the Azorean Biodiversity Group Facebook webpage (<https://www.facebook.com/azoreanbiodiversitygroup?ref=hl>) Enésima Mendonça, Artur Gil, Carla Rego and Orlando Guerreiro, are frequently posting important news on international relevant biodiversity publications, events or software.

This facebook page was created in December 2013 and has 1029 likes. Of these the vast majority are Portuguese, followed by the Spanish and North Americans. But we come to countries such as Venezuela, Brazil, Austria, Netherlands, Australia, Japan, Kenya, Vietnam, etc. In the last three months GBA Facebook page had a daily average of 218 people to view any content associated with it.

“The Associate Collaborators Prize 2014” Award to Simone Fattorini

(<http://www.gba.uac.pt/quem/ver.php?id=75>;

and

<https://sites.google.com/site/fattorinitenebrionidae/home>)



This year we decided to highlight the important contribution of our Associated Collaborator, **Simone Fattorini**, for the international promotion of the Azorean Biodiversity Group. Since 2010 Simone is actively collaborating with Azorean Biodiversity Group, with three visits to Terceira to develop some publications about Azorean biodiversity. In the last years he published four papers with Azorean arthropod data and in total he published an impressive number of 45 papers in SCI journals with ABG affiliation.

Simone Fattorini is an independent Italian researcher that is a teacher of mathematics and science in a middle school at Rome. He is an ecologist and a zoologist with broad interests, involving insect biogeography, ecology and conservation in island, coastal and urban ecosystems. He is also interested in the study of vertebrate and invertebrate macroecological patterns. He has taught Applied Ecology at “Roma Tre” University and he has worked at the Italian Agency for the Environmental Protection (now ISPRA).

DETAILED INFORMATION FOR 2014

PROJECTS RUNNING BETWEEN 2008 and 2014

INTERNATIONAL PROJECTS

1. NETBIOME – Europe –FCT NETBIOME/0003/2011

ISLAND-BIODIV: Understanding biodiversity dynamics in tropical and subtropical islands as an aid to science based conservation action (2012-2015)

Coordinator: Brent Emerson (Instituto de Productos Naturales y Agrobiología (IPNA-CSIC), Tenerife, Canary Islands, Spain); Members: Paulo Borges, Rui B. Elias (CITA-A – Azorean Biodiversity Group, Portugal); Pedro Oromí, José María Fernández-Palacios (Univ. de La Laguna, Canaries, Spain); Dominique Strasberg (Université de La Réunion, Réunion, France); Christophe Thébaud (Université Paul Sabatier (Toulouse 3), France), Juli Caujapé-Castells (Jardín Botánico Canario “Viera y Clavijo” – Unidad Asociada CSIC, Spain).

Coordinator Portugal: Paulo Borges; Members: Rui B. Elias, António Onofre Soares, Pedro Cardoso, Carla Rego, José Marcelino, Isabel R. Amorim, Fernando Pereira (added recently: Rui Nunes, Maria Teresa Ferreira). Grant Student: Rui Carvalho.

Budget for the Azorean Biodiversity Group: 61.044,00€

2. NETBIOME – Europe – DRCTC

MOVECLIM: **Montane** vegetation as listening posts for **climate** change (2012-2015)

Coordinator: Claudine Ah-Peng (University of La Réunion);

Members: Rosalina Gabriel- (Azorean Biodiversity Group – Univ Azores); Magnin Hervé (Parc national de la Guadeloupe); Jean-Yves Meyer (Délégation à la Recherche, Gouvernement de Polynésie Française Research Department, Government of French Polynesia); Juana María González-Mancebo (University of La Laguna, Department of Botany); Jacques Bardat (Muséum National d’Histoire Naturelle); Benoît Lequette (Parc National de La Réunion); Lisa Lavocat (Conservatoire Botanique National de Guadeloupe); Terry Hedderson (University of Cape Town, Botany Department); Michael Kessler (University of Zürich); Juergen Kluge (University of Marburg); Min Chuah-Petiot (Universiti Sains Malaysia);

Coordinator in Portugal: Rosalina Gabriel (Azorean Biodiversity Group – Univ Azores)
Portuguese team: Márcia Coelho, Débora Henriques, Sílvia Calvo Aranda, Fernando Pereira, Rui Elias

Budget for the Azorean Biodiversity Group: 70.000,00€

3. CESAB, Centre de Synthèse et d'Analyse sur la Biodiversité.

Community assembly on remote islands: does equilibrium theory apply?

PI: Christophe Thébaud.

Members: Kostas Triantis (Position in the project: Research associate)

4. Biogeography, life history and conservation of endemic and threatened birds of the Penambuco center of endemism, northeast Brazil.

PI: R.J Ladle (UFAL & Oxford).

Members: Kostas Triantis (Position in the program: Technical advisor)

5. AGRICOMAC: Transferencia de Tecnologías al Setor Agrícola de la Macaronesia – MAC/1/C047 (2009-2011)

Coordinator: D. Henry Sicilia Hernández (ASAGA); Members: David João Horta Lopes (Azorean Biodiversity Group – Univ. Azores, Portugal); D. Juan Carlos Moreno Moreno (ICIA); D. Ricardo Melchior Navarro (Cabildo de Tenerife, Canary Islands, Spain); Domingo Ríos Mesa (CCBAT); Dña. Guadalupe González Taño (Cabildo de la Palma, Canary Islands, Spain); Joao Francisco G. Nunes Ferreira (Associação de Agricultores da Madeira, Madeira, Portugal); José Manuel Nunes Castanheira da Costa (UMa); Miguel Ângelo Almeida Pinheiro Carvalho (ISOPlexis); Fernando Gastão da Sousa Sieuve de Menezes (FRUTER); Artur da Câmara Machado (CBA, Portugal);

Coordinator Portugal: David João Horta Lopes (Azorean Biodiversity Group – Univ. Azores, Portugal); Reinaldo Pimentel

Budget for the Azorean Biodiversity Group: 40.000,00€

6. BIOMUSA: Transferencia de I+D+I para o Desenvolvimento sustentável da cultura da

bananeira nas RUPs MAC – MAC/1/C054 (2009-2011)

Coordinator: Juan Cabrera (ICIA); Members: David João Horta Lopes (Azorean Biodiversity Group – Univ. Azores, Portugal); Luís Ribeiro (DRADR); Esther Domínguez (ASPROCAN); Raimundo Cabrera (ULL);

Coordinator Portugal: David João Horta Lopes (Azorean Biodiversity Group – Univ. Azores, Portugal); Reinaldo Pimentel

Budget for the Azorean Biodiversity Group: 41.000,00€

7. CABMEDMAC: Estudo de implementação de medidas de combate à Mosca-do-mediterrâneo em Cabo Verde e na Macaronésia – MAC/3/A163 (2010-2013)

Coordinator: David João Horta Lopes (Azorean Biodiversity Group – Univ. Azores, Portugal); Members: Dalila Maria Bettencourt Caldeira Sena Carvalho (SRARN); Raimundo Cabrera Pérez (ULL); Santiago Domingo Perera Gonzalez (Cabildo Insular de Tenerife, Canary Islands, Spain); Isildo Gonçalves Gomes (Instituto Nacional de Investigação e Desenvolvimento Agrário (INIDA), Portugal);

Budget for the Azorean Biodiversity Group: 100.000,00€

8. GENAIRE: GenERATIONS OF AZOREANS AND RENEWABLE ENERGY – MIT-PORTUGAL PROGRAM (2010-2012)

Coordinator: Rosa Neves Simas (Coord.) (DLLM – UAç)

Members: Ana Moura Arroz (DCE – UAç);

Other participants: Licínio Vicente Tomás (DHFCS – UAç); Margarida Damião Serpa (DCE – UAç); Carlos João Gomes (DCE – UAç).

9. COST Project **2012-1-12550** - European Information System for Alien Species (2013-2016)

Coordinator: Helen Roy (NERC Centre for Ecology & Hydrology (U.K.); Members: Paulo

Borges, António Onofre Soares, Rui B. Elias, Isabel Borges, Artur Gil, (CITA-A – Azorean Biodiversity Group);

10. (ODOEVO2011). Ancient responses to new challenges: ecology and evolution of the Odonata (2013-2016)

PRINCIPAL INVESTIGATOR: Professor Adolfo Cordero Rivera.

INTERNATIONAL TEAM: Adolfo Cordero Rivera, Alejandro Córdoba Aguilar, Chris Beatty, Carlos Esquivel, Chris Hassall, Carlo Utzeri, Haomiao Zhang, Ivette Galicia Mendoza, María Calviño Cancela, new FPI student; hired PhD, Pere Luque, Phill Watts, Rosa Ana Sánchez Guillén, Robby Stoks, Tom Sherratt, Virgilio Vieira.

INSTITUTIONS INVOLVED: Universidad de Vigo (Spain), Università la Sapienza di Roma (Italy), Universidade dos Açores (Portugal), Consorci del Museu Comarcal del Montsia (Spain), University of Liverpool (UK), Universidad San Francisco de Quito (Ecuador), South China Agricultural University (China), Universidad Autónoma de México (Mexico), University of Carleton (Canada), Universidad Nacional de Costa Rica (Costa Rica), Université catholique de Louvain (Belgium).

FUNDING: 152.000,00 Euro by Ministerio de Ciencia e Innovación/Gobierno de España.

Members: Virgilio Vieira

11. LIFE- Project (Life12 bio7pt/000110). Restauo Ecológico e Conservação da Infra-Estrutura Verde Húmida Costeira da Praia da Vitória (LIFE-CWR) (2013-2017) - Budget for the Azorean Biodiversity Group: 120000 Euros

Coordinators ABG: Paulo Borges, Rosalina Gabriel (CITA-A – Azorean Biodiversity Group);

12. Biodynamic Island Group (BIG) - 14 experts in island biogeography

Coordinator: Michael Borregaard & Robert Whittaker (based at the University of Oxford, UK)

Members: Paulo A. V. Borges, François Rigal, Tom Matthews, Kostas A. Triantis

13. BIONATURA - Cooperación y sinergias en el conocimiento y la preservación de la biodiversidad de la Región Macaronésica e gestion Rede NATURA (INTERREG III B - 05/MAC/2.3/A4 2007). (2006-2008).

Coordinator: Paulo Borges; Members: Rosalina Gabriel;

Budget for the Azorean Biodiversity Group: 90,000 Euros

Funded by FCT (Portuguese Science Foundation)

1. FCT - PTDC/BIA-BEC/104571/2008 – “What can the Macaronesian islands teach us about speciation? A case study of *Tarphius* beetles and *Hipparchia* butterflies” (2010-2012)

Coordinator: Paulo Borges; Members: Rosalina Gabriel; Ana Moura Arroiz; Isabel R. Amorim; Fernando Pereira;

Other participants: Brent C. Emerson and Christiana Faria (Centre for Ecology, Evolution and Conservation, School of Biological Sciences, University of East Anglia, U.K.); Artur R. M. Serrano (CBA- Fac. de Ciências de Lisboa, Portugal).

Budget for the Azorean Biodiversity Group: 120.000,00€

2. FCT- PTDC/BIA-BEC/100182/2008 – “Predicting extinctions on islands: a multi-scale assessment” (2010-2013)

Coordinator: Paulo Borges (Azorean Biodiversity Group, Univ. Azores, Portugal);
Members: Kostas Triantis, Luís Crespo, François Rigal, Carla Rego, Fernando Pereira. Robert Whittaker (Biodiversity Research Group, Oxford University Centre for the Environment, U.K.); Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens, Greece).

Budget for the Azorean Biodiversity Group: 194.907,00€

3. FCT - PTDC/CCI/72381/2006 - ÁFRICA ANNES - Social perception in environmental

risk communication – (2009-2011)

Coordinator: António Felix Rodrigues (CITA-A); Members: Rosalina Gabriel; Ana Moura Arroz; Paulo Borges.

Total Budget: 95.000€

4. FCT - PTDC/AMB/70801/2006 - Understanding Underground Biodiversity: Studies of Azorean Lava Tubes. (2009-2011)

Coordinator: Maria de Lurdes Nunes Enes Dapkevicius (CITA-A); Members: Rosalina Gabriel, Paulo Borges, Isabel R. Amorim, Fernando Pereira.

Total Budget: 199.000€

5. FCT - Green Islands Project – “Use of woody plant biomass for energy production in the Azores Islands” – (2010-2012)

Coordinator: Luís Silva (CIBIO- Azores); Members: Rosalina Gabriel, Paulo Borges, Sílvia Calvo, Artur Gil.

Budget for the Azorean Biodiversity Group: 13.348,00€ Euros.

6. FCT - PTDC/BIA-BEC/099138/2008 - Conflict between human activities and the conservation of island endemics in a Global Biodiversity Hotspot. (2010-2013)

Coordinator: Artur Serrano (CBA- Lisbon, Portugal) ; Members: Paulo Borges, Carla Rego, Clara S. Gaspar, Pedro Cardoso, Alberto J. Valverde, Joaquin Hortal, Ana Margarida Santos, Fernando Pereira.

Budget for the Azorean Biodiversity Group: 8.000,00€ (Field Work)

7. FCT - PTDC/BIA-BEC/098783/2008 - Adaptive significance and genetic basis of a balanced colour-polymorphism. (2010-2012)

Coordinator: Sofia Seabra (CBA- Lisbon, Portugal); Members: Paulo Borges.

Budget for the Azorean Biodiversity Group: 3.000,00€ (Field Work)

8. FCT - PTDC/AGR-AAM/108312/2008. “An omnipotent guest in an omnipotent pest: Aphids/Wolbachia case “(2010-2013)

Coordinator: Manhaz Khadem (Univ. Madeira, Portugal); Members: Paulo Borges.

Budget for the Azorean Biodiversity Group: 3.000,00€

9. FCT - POCTI/BIA-BDE/59202/2004 - High Endemism Areas in the Archipelago of Madeira - Establishing priorities for the conservation of the endemic insect fauna. (2006-2009)

Coordinator: Artur Serrano (CBA- Lisbon) ; Members: Paulo Borges, Carla Rego, Pedro Cardoso, Fernando Pereira, Sérgio Ribeiro, Isabel R. Amorim.

Budget for the Azorean Biodiversity Group: 8.000,00€ (Field Work)

10. PTDC/BIA-BIC/119255/2010 – “Biodiversity on oceanic islands: towards a unified theory” (2012-2014)

Coordinators: Paulo A. V. Borges and Kostas Triantis;

Other participants from Azorean Biod. Group: Ana Margarida Santos, Pedro Cardoso, François Rigal (Post-Doc of the Project).

Other participants from other Institutions: Robert Whittaker (Biodiversity Research Group, Oxford University Centre for the Environment, U.K.); Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens, Greece)

Project’s consultants (Brent Emerson, John Halley, Joaquin Hortal and Richard Ladle; Luis António Borda Água)

Projects Collaborators (Isabel R. Amorim, Miguel Ferreira and James Rosindell)

Budget for the Azorean Biodiversity Group: 99.000,00€

Funded by DRCT (Azorean Science Foundation)

1. DRCTC - M.2.1.2/I/003/2008 “Consequences of land-use change on Azorean fauna and flora - the 2010 Target” (2009-2010)

Coordinators: Pedro Cardoso, Paulo Borges; Members: Clara Gaspar; Silvia Calvo; Fernando Pereira, João Moniz.

Budget for the Azorean Biodiversity Group: 25.000,00€

2. DRCTC - M.2.1.2/I/004/2008 . “EDUMAR Perspectives About the Sea and Sea Life Cetaceans and Tourism in the Azores and Newfoundland” – (2008-2010)

Coordinator: Alison L. Neilson; Members: Rosalina Gabriel, Ana Moura Arroz, Enésima Mendonça.

Budget for the Azorean Biodiversity Group: 25.000,00€

3. DRCTC - M2.1.2/F/007/2007 - Identificação de populações geneticamente distintas de espécies de artrópodes endémicas dos Açores para a conservação da biodiversidade no arquipélago (2009-2010)

Coordinator: Rosalina Gabriel; Members: Paulo Borges, Isabel R. Amorim, Ana Simões.

Budget for the Azorean Biodiversity Group: 35.000,00€ (Finalized)

4. DRCTC - M221-I-002-2009 - TERMODISP - A térmita de madeira seca *Cryptotermes brevis* (Walker) nos Açores: Monitorização dos voos de Dispersão e prevenção da colonização. (2009-2012)

Coordinator: Paulo Borges; Members: Ana Moura Arroz, Ana Simões, Orlando Guerreiro, Annabella Borges, Filomena Ferreira, Carolina Couto, Lina Nunes.

Budget for the Azorean Biodiversity Group: 183.029,00€

5. DRCTC - M3.2.3/I/017B/2009, no âmbito da Medida 3.2.3 – “Apoio à edição de publicações científicas”, no âmbito do Eixo 3.2 – “Incentivos à produção científica”, do Programa 3 (Apoio à formação avançada (FORMAC)- “Listagem dos Fungos, Flora e Fauna Terrestre e costeira dos Açores / A list of the terrestrial and coastal fungi, flora and fauna of Azores” (2009-2010)

Coordinator: Paulo Borges; Members: Rosalina Gabriel, Enésima Mendonça.

Budget for the Azorean Biodiversity Group: 10.000,00€

6. DRCTC - M3.2.3/I/019B/2009, no âmbito da Medida 3.2.3 – “Apoio à edição de publicações científicas”, no âmbito do Eixo 3.2 – “Incentivos à produção científica”, do Programa 3 (Apoio à formação avançada (FORMAC)- “Abordagens ao ambiente em contexto escolar” (2009-2010)

Coordinator: Rosalina Gabriel; Members: Ana Moura Arroz, Paulo Borges

Budget for the Azorean Biodiversity Group: 5.000,00€

7. DRCTC- M212/I/039/2011 - Biodiversity Economic Valuation of Endemic Species
(BioEcoValES) (2012-2014)

Coordinator: Tomaz P. Dentinho; Members: Rosalina Gabriel.

Budget for the Azorean Biodiversity Group: 67.000,00€

8. DRCTC- M2.1.2/I/005/2011 - Implications of climate change for Azorean Biodiversity
- IMPACTBIO (2012-2014)

Coordinator: Rui B. Elias; Members: Paulo A. V. Borges, Rosalina Gabriel, Silvia Calvo,
Pedro Cardoso; Maria Teresa Ferreira

Budget for the Azorean Biodiversity Group: 67.000,00€

9. DRCTC- M2.1.2/I/008/2011 - Biomonitoring air pollution: development of an
integrated system - BIOAIR (2012-2014)

Coordinator: Armindo Rodrigues; Members: Patrícia Garcia

Budget for the Azorean Biodiversity Group: 67.000,00€

10. DRCTC- M2.1.2/I/027/2011 - Mapping coastal and marine biodiversity of the
Azores - ATLANTIS-MAR (2012-2014)

Coordinator: Paulo A. V. Borges; Members: Enésima Mendonça, Pedro Cardoso, João
Pedro Barreiros, Rosalina Gabriel, Rui Elias

Budget for the Azorean Biodiversity Group: 67.000,00€

11. DRCTC- M2.1.2/F/040/2011 - Science and Policy Integration for a Sustainable
Marine Strategy - SciPol-ISEMarS (2012-2014)

Coordinator: Ricardo Serrão Santos (DOP); Members: Alison Neilson

Budget for the Azorean Biodiversity Group: 4.000,00€

12. DRCTC- M3.2.3/I/035/2011 – Publicação “Problemas Fitossanitários nas Cameleiras
da Ilha de São Miguel” (2011-2012).

Coordinator: David João Horta Lopes; Members: Ana Santos, Jorge Azevedo, Liliana

Marques, Lucia Ventura, Reinaldo Pimentel

Budget for the Azorean Biodiversity Group: 2.330,00€

13. DRCTC- M3.2.3/I/036/2011 – Publicação “Folhas Divulgativas – Preservação de Variedades Regionais” (2011-2012).

Coordinator: Lucia Ventura; Members: David João Horta Lopes, Ana Santos, Jorge Azevedo, Liliana Marques, Reinaldo Pimentel

Budget for the Azorean Biodiversity Group: 1.616,00€

14. DRCTC- M4.2.2/I/015/2012 – Divulgação do papel da Protecção de Plantas no Combate aos problemas fitossanitários das culturas (2012)

Coordinator: David João Horta Lopes; Members: Ana Santos, Jorge Azevedo, Liliana Marques, Lucia Ventura, Reinaldo Pimentel

Budget for the Azorean Biodiversity Group: 4.994,00€

15. DRCTC- M3.2.2/I/017/2012_- XV Congresso Iberico de Entomologia (2012)

Coordinator: Paulo A. V. Borges; Members: Carla Rego

Budget for the Azorean Biodiversity Group: 8.200,00€

16. DRCTC- (M3.1.7/F/002/2011) Impact of Land-Use changes in the arthropod fauna of the Azores (2012-2015).

Coordinator: Paulo A. V. Borges; Membros: Margarita Patricia Florencio Díaz, Pedro Cardoso, Jorge M Lobo (in collaboration with “Museo de Ciencias Naturales-CSIC”, Spain)

Budget for the Azorean Biodiversity Group: 63.000,00€ euros

17. DRCTC – (M3.2.2/I/034/2012). Workshop “Biotecnologia em Controlo Biológico” (2012)

Coordinator: António O. Soares; Members: Paulo A. V. Borges Patricia Garcia, David H. Lopes, Enésima Mendonça.

Budget for the Azorean Biodiversity Group: 7.085,00€

18. DRCTC - M4.2.2/I/005/2011 A cultura científica no séc: XIX - a sustentabilidade do diálogo. Project, Comemoração do Dia Nacional da Cultura Científica.

Coordinator: Alison L. Neilson (2011)

Budget for the Azorean Biodiversity Group: 2500,00 €

19. DRCTC - M3.2.2/I/020/2011 Project, Scientific Meeting, Exploring the wealth of coastal fisheries: Listening to community voices.

Coordinator: Alison L. Neilson (2011)

Budget for the Azorean Biodiversity Group: 14888,00 €

20. DRCTC - M4.2.2/I/004/2010 Biodiversidade Seminario, Apoio à realização de reuniões no âmbito da divulgação científica e tecnológica - 1ª edição, Comemoração do Ano Internacional da Biodiversidade

Coordinator: Alison L. Neilson (2010)

Budget for the Azorean Biodiversity Group: 6150,00 €

21. DRCTC - M4.2.3/I/004/2010 Biodiversidade Foto Exposição, Apoio à realização de reuniões no âmbito da divulgação científica e tecnológica - 1ª edição, Comemoração do Ano Internacional da Biodiversidade.

Coordinator: Alison L. Neilson (2010)

Budget for the Azorean Biodiversity Group: 2320.00 €

OTHER FUNDING INSTITUTIONS

1. Câmara Municipal de Angra do Heroísmo - “Combate e Gestão das Térmitas (Isoptera) na Cidade de Angra do Heroísmo” (2009)

Coordinator: Paulo Borges; Members: Ana Simões, Orlando Guerreiro, Annabella Borges.

Budget for the Azorean Biodiversity Group: 12.000,00€ (Finalized)

2 DRA- Direcção Regional do Ambiente - “Gestão de Resíduos Contaminados com
Térmitas” (2009-2010)

Coordinator: Paulo Borges; Members: Ana Moura Arroz; Orlando Guerreiro, Annabella
Borges

Budget for the Azorean Biodiversity Group: 24.000,00€

3. FLAD - [PRO-BIO] Profiling Reliable Organisms as BIOindicators (2009-2011)

Coordinator: António Onofre Soares ; Members: Paulo Borges; José Marcelino, Patricia
Garcia, Budget for the Azorean Biodiversity Group: 53.000,00 Euros.

4. Câmara Municipal da Praia da Vitória - “Monitorização da Térmita subterrânea
Reticulitermes flavipes no concelho da Praia da Vitória, Ilha Terceira” (2010)

Coordinator: Paulo Borges; Members: Lina Nunes, Orlando Guerreiro, Annabella
Borges.

Budget for the Azorean Biodiversity Group: 9.000,00€

5. United Nations University - RCE-Azores, UNESCO Research Centre of Expertise
(2009-2014)

Coordinator: Alison L. Neilson; Members: Rosalina Gabriel, Ana Moura Arroz, Enésima
Mendonça, Paulo Borges, Ana Simões, Fernando Pereira.

EU Leonardo DaVinci Programme for Vocational Training, Change Agents UK – support
placement of interns with RCE Açores, two interns in 2011, three in 2012, two in
2013, two in 2014.

Budget: 22.950,00€

6. Câmara Municipal de Angra do Heroísmo- “Teste da Técnica de Temperatura para
combate às térmitas de Madeira Seca (Isoptera)” (2010)

Coordinator: Paulo Borges; Members: Lina Nunes; Orlando Guerreiro, Annabella
Borges, Filomena Ferreira.

Budget for the Azorean Biodiversity Group: 162.480€

7. EDP – BIODIVERSITY PORTUGAL - “ Biodiversidade, endemismos e espécies protegidas associadas às lagoas e cursos de água da Serra da Estrela: valorização de um século de aproveitamento hidroeléctrico” (2012-2014)
Coordinator: Artur R. M. Serrano; CBA- Lisbon) ; Members: Paulo Borges, Carla Rego, Pedro Cardoso,
Budget for the Azorean Biodiversity Group: 5.000€
8. FLAD - [HOLI-BioPest] Desenvolvimento de um programa integrado para biomonitorizar a exposição a pesticidas em ecossistemas agrícolas: uma abordagem holística (2012-2014)
Coordinator: Patrícia Ventura Garcia; Members: Armindo Rodrigues, Maria do Carmo Barreto, Luís Cunha, John Stark (Washington State University, USA)
Budget for the Azorean Biodiversity Group: 24.000 Euros.
9. Direcção Regional do Turismo. Workshop “Augmentative Biological Control: scientific research, field application and business”. (2012)
Coordinator: António O. Soares; Members: Isabel Borges.
Budget for the Azorean Biodiversity Group: 1.000,00€
10. SOS Termitas –Unidos na Prevenção (2010-2012)
Funded by Mayor Ponta Delgada, Angra Heroísmo, Vila Porto; Horta
Coordinator: Ana Moura Arroz; Members: Rita São Marcos, Isabel Neves, Orlando Guerreiro, Rosalina Gabriel, Paulo Borges; Paulo Silva
Budget for the Azorean Biodiversity Group: 100.000,00€
11. SOS Termitas –Unidos na Prevenção II (2012-2013)
Funded by Mayor Ponta Delgada, Vila Porto.
Coordinator: Ana Moura Arroz; Members: Rita São Marcos, Isabel Neves, Orlando Guerreiro, Rosalina Gabriel, Paulo Borges; Paulo Silva
Budget for the Azorean Biodiversity Group: 20.000,00€
12. PICA; Projeto Investigação para combate a Afídeos em Viveiros Florestais: Utilização de agentes de controlo biológico para o combate a populações de afídeos

em plantas endémicas produzidas em viveiro (PICA, Research Project to fight Aphids in Forest Nurseries: Use of biological control agents to fight endemic populations of aphids on plants grown in nurseries) (2013-2016).

Funded by: SECRETARIA REGIONAL DOS RECURSOS NATURAIS (Direção Regional dos Recursos Florestais)

Coordinator: António Onofre Soares; Members: Isabel Borges, Marta Costa, Carina Nóbrega e Catarina Quintela.

Budget for the Azorean Biodiversity Group: 10.403,75 Euros

13. Monitoring wood insect pests in the Palaces of Azores (2010-2014)

Funded by Azorean Government (Minister of Science and Equipment).

Coordinator: Paulo A. V, Borges; Members: Orlando Guerreiro, Filomena Ferreira, Nuno Bicudo

Budget for the Azorean Biodiversity Group: 88.000,00€

14. Monitoring the dry-wood termites from Azores (2014)

Funded by Azorean Government (Minister of Environment).

Coordinator: Paulo A. V, Borges; Members: Orlando Guerreiro

Budget for the Azorean Biodiversity Group: 7.000,00€

PUBLICATIONS IN 2014

INTERNATIONAL PEER REVIEWED PAPERS WITH IMPACT FACTOR (SCI)

2014 (n= 58)

By at least one integrated member (n= 39)

Aranda, S.C., Gabriel, R., Borges, P.A.V., Santos, A.M.C., Azevedo, E.B., Patiño, J., Hortal, J. & Lobo, J.M. (2014). Geographical, temporal and environmental determinants of bryophyte species richness in the Macaronesian islands. *PlosOne* **9**(7): e101786. DOI:10.1371/journal.pone.0101786 **(P434) (IF2013: 3.534; Q1 Multidisciplinary Sciences) (<http://hdl.handle.net/10400.3/3138>)**

Aranda, S.C., Gradstein, S.R., Patiño, J., Laenen, B., Désamoré, A. & Vanderpoorten, A. (2014). Phylogeny, classification and species delimitation in the liverwort genus *Odontoschisma* (Cephaloziaceae). *Taxon*, **63**: 1008-1025. (IF: 3,051) DOI: [10.12705/635.12](https://doi.org/10.12705/635.12) **(P647) (IF2013: 3.051; Q1 Plant Sciences)**

Ávila, M., Nunes, D., Machado, L. & Barreiros, J.P. (2014). Notes on the feeding habits of *Gaidropsarus guttatus* (Collett, 1890) from Faial Island, Azores, NE Atlantic, PT. *Cybiium – International Journal of Ichthyology*, **38**: 77-80. **(P512) (IF2013: 0.379; Q4 Zoology)**

Bajraktari, A., Petutschnigg, A., Ymeri, M., Candan, Z., Korkut, S., Nunes, L., Pereira, H. (2014). Forest Resources and Sawmill Structure of Kosovo: State of the Art and Perspectives. *Drvna Industrija*, **65**: 323-327. DOI: 10.5552/drind.2014.1343 **(P685) (IF2013: 0.444; Q3 Materials Science, Paper & Wood)**

Barreiros, J.P., Vieira, R.P. & Machado, L. (2014). First record of *Alosa fallax* (Lacépède, 1803) (Teleostei: Clupeiformes: Clupeidae) in the Azores Archipelago, Portugal (NE Atlantic). *Mitteilungen Klosterneuburg Journal*, **64**: 18-23. **(P574) (IF2013: 0.031; Q4 Horticulture)**

Barreiros, J.P. & Guerreiro, O. (2014). Notes on a plastic debris collar on a juvenile

- Pagellus acarne (Perciformes: Sparidae) from Terceira Island, Azores, NE Atlantic. *Bothalia*, **44**: 1-5. **(P608) (IF2013: 0.412; Q4 Plant Sciences)**
- Barreiros, J.P.,** Gadig, O.B.F. & Haddad, V. Jr. (2014). An unprovoked attack by a blue shark *Prionace glauca* (Chondrichthyes, Carcharhinidae) on a spear fisherman in Terceira Island, Azores, NE Atlantic. *Wilderness & Environmental Medicine*, **25**: 371-372. DOI: 10.1016/j.wem.2014.03.014 **(P598) (IF2013: 0.79; Q4 Public, Environmental & Occupational Health)**
- Barreiros, J.P. &** Raykov, V.S. (2014). Lethal lesions and amputation caused by plastic debris and fishing gear on the loggerhead turtle *Caretta caretta* (Linnaeus, 1758). Three case reports from Terceira Island, Azores (NE Atlantic). *Marine Pollution Bulletin*, **86**: 518–522. DOI: 10.1016/j.marpolbul.2014.07.020 **(P615) (IF2013: 2.793; Q1 Environmental Sciences)**
- Borges, P.A.V.,** Guerreiro, O., Ponte, N.B., Borges, A., Ferreira, F., Ferreira, M.T., Nunes, L., Marcos, R.S., Arroz, A., Scheffrahn, R.H. & Myles, TG. (2014). *Cryptotermes brevis* (Isoptera: Kalotermitidae) in the Azores: Lessons after 2 yr of monitoring in the archipelago. *Journal of Insect Science*, **14**(172): 1-7. DOI: 10.1093/jisesa/ieu034 **(P438) (IF2013: 0.921; Q3 Entomology)**
- Cardoso, P.,** Rigal, F., Carvalho, J.C., Fortelius, M., Borges, P.A.V., Podani, J. & Schmera, D. (2014). Partitioning taxon, phylogenetic and functional beta diversity into replacement and richness difference components. *Journal of Biogeography*, **41**: 749–761. DOI: 10.1111/jbi.12239 **(P492) (IF2013: 4.969; Q1 Ecology) (<http://hdl.handle.net/10400.3/2904>)**
- Cardoso, P.,** Rigal, F., Borges, P.A.V. & Carvalho, J.C. (2014). A new frontier in biodiversity inventory: a proposal for estimators of phylogenetic and functional diversity. *Methods in Ecology and Evolution*, **5**: 452–461. DOI: 10.1111/2041-210X.12173 **(P552) (IF2013: 5.322; Q1 Ecology) (<http://hdl.handle.net/10400.3/3073>)**
- Crespo, L.C.,** Bosmans, R., Cardoso, P. & Borges, P.A.V. (2014). On three endemic species of the linyphiid spider genus *Canariphantes* Wunderlich, 1992 (Araneae, Linyphiidae) from the Azores archipelago. *Zootaxa*, **3841**: 403–417. DOI: 10.11646/zootaxa.3841.3.5 **(P416) (IF2013: 1.06; Q2 Zoology) (<http://hdl.handle.net/10400.3/3141>)**

- Crespo, L.C.,** Silva, I., **Borges, P.A.V. & Cardoso, P.** (2014). Assessing the conservation status of the strict endemic Desertas wolf spider, *Hogna ingens* (Araneae, Lycosidae). *Journal for Nature Conservation* **22**: 516-524. DOI: 10.1016/j.jnc.2014.08.005 **(P490) (IF2013: 1.833; Q3 Ecology)**
- De Araújo M.E., Lunardon-Branco, M.J., Verani, J.R., Branco, J.O., **Barreiros, J.P.** & Christoffersen M.L. (2014). A trophic analysis for target species of macrobenthos in a subtropical coastal community: A taxa relationship essay. *Vie & Millieu*, 64: 35-46. **(P578) (IF2013: 0.5; Q4 Ecology)**
- Elias, R.B. & Dias, E.** (2014). The recognition of infraspecific taxa in *Juniperus brevifolia* (Cupressaceae). *Phytotaxa*, **188**: 241-250. **(P599) (IF2013: 1.376; Q2 Plant Sciences)**
- Esteves, B., **Nunes, L.**, Domingos, I. & Pereira, H. (2014). Comparison between heat treated sapwood and heartwood from *Pinus pinaster*. *European Journal of Wood and Wood Products*, **72**: 53-60. DOI: 10.1007/s00107-013-0751-y **(P548) (IF2013: 1.105; Q2 Materials Science, Paper & Wood)**
- Fonseca, C., Pereira da Silva, C., Calado, H., Moniz, F., Bragagnolo, C., **Gil, A.**, Phillips, M., Pereira, M. & Moreira, M. (2014). Coastal and marine protected areas as key elements for tourism in small islands. *Journal of Coastal Research*, SI **70**: 461-466. DOI: 10.2112/SI70-078.1 **(P566) (IF2013: 0.755; Q4 Environmental Sciences)**
- Florencio, M.**, Serrano, L., Siljeström, P., Fernández-Zamudio, R., García-Murillo, P., Díaz-Paniagua, C. (2014). The influence of geomorphological, hydrological and soil features on the composition of aquatic flora and fauna within a temporary pond network. *Limnetica*, **33**: 327-340. **(P644) (IF2013: 0.776; Q4 Marine & Freshwater Biology)**
- Florencio, M.**, Fernández-Zamudio, R., Bilton, D.T., Díaz-Paniagua, C. (2014). The exotic weevil *Stenopelmus rufinasus* Gyllenhal, 1835 (Coleoptera: Curculionidae) across a “host-free” pond network. *Limnetica*, in press **(P675) (IF2013: 0.776; Q4 Marine & Freshwater Biology)**
- Gil, A.**, Carrara, P., Bosc, C., Basoni, A., Bacai, H., Clavé, M., Pergola, N., Monbet, P., Zolotikova, S., Zepeda-Juarez, J., Antoninetti, M., Tramutoli, V., & Wells, A.

- (2014). DORIS_NET project: enhancing the regional impact of COPERNICUS program by setting up the European Network of Regional Contact Offices (RCO). *European Journal of Remote Sensing*, **47**: 29-43. DOI: 10.5721/EuJRS20144703 **(P580) (IF2013: 0.971; Q3 Remote Sensing)**
- Gil, A.**, Yu, Q., Abadi, M. & Calado, H. (2014). Using ASTER imagery for mapping invasive *Pittosporum* woodland in Pico da Vara Natural Reserve (Azores Islands, Portugal). *Revista ARVORE*, **38**: 391-401. DOI: 10.1590/S0100-67622014000300001 **(P241) (IF2013: 0.396; Q4 Forestry)**
- Guerreiro, O., Cardoso, P., Ferreira, J.M., Ferreira, M.T. & Borges, P.A.V.** (2014). Potential distribution and cost estimation of the damage caused by *Cryptotermes brevis* (Isoptera: Kalotermitidae) in the Azores. *Journal of Economic Entomology*, **107**: 1554-1562. DOI: [10.1603/EC13501](https://doi.org/10.1603/EC13501) **(P439) (IF2013: 1.605; Q1 Entomology) (<http://hdl.handle.net/10400.3/3140>)**
- Halley, J.M., Sgardeli V. & **Triantis, K.A.** (2014). Extinction debt and the species-area relationship: a neutral perspective. *Global Ecology and Biogeography*, **23**: 113-123. DOI: 10.1111/geb.12098 **(P442) (IF2013: 7.242; Q1 Ecology)**
- Hathaway, J.J.M., Garcia, M.G., Moya, M., Spilde, M.N., Stone, F.D., Dapkevicius, M.L.N.E., **Amorim, I., Gabriel, R., Borges, P.A.V.**, Northup, D.E. (2014). Comparison of Bacterial Diversity in Azorean and Hawaiian Lava Cave Microbial Mats. *Geomicrobiology Journal*, **31**: 205-220. DOI: 10.1080/01490451.2013.777491 **(P406) (IF2013: 1.804; Q2 Environmental Sciences) (<http://hdl.handle.net/10400.3/2823>)**
- Henriques, D., Brito, J., **Duarte, S. & Nunes, L.** (2014). Consolidating preservative-treated wood: Combined mechanical performance of boron and polymeric products in wood degraded by *Coniophora puteana*. *Journal of Cultural Heritage*, **15**: 10-17. DOI: 10.1016/j.culher.2012.11.008 **(P474) (IF2013: 1.111; Q3 Materials Science, Multidisciplinary)**
- Machado L.F., Nunes, D., Ávila, M., Vieira, R.P. & **Barreiros J.P.** (2014). Feeding strategy and trophic ontogeny in *Scorpaena maderensis* (Scorpaeniformes: Scorpaenidae) from Azores, NE Atlantic. *Cybium*, **38**: 163-171. **(P576) (IF2013: 0.379; Q4 Zoology)**
- Marcelino, J.A.P., Weber, E., Silva, L., Garcia, P.V. & Soares, A.O.** (2014). Expedient

- metrics to discriminate plant communities across gradients of anthropogenic disturbance. *Environmental Management.*, **54**: 1121-1130. DOI: 10.1007/s00267-014-0321-z **(P473) (IF2013: 1,648; Q3 Environmental Sciences)**
- Melo, C.D.**, Walker, C., Rodriguez-Echeverria, S., **Borges, P.A.V.** & Freitas, H. (2015). Species composition of arbuscular mycorrhizal fungi differ in semi-natural and intensively pastures in an isolated oceanic island (Terceira, Azores). *Symbiosis*, **64**: 73-85. DOI: 10.1007/s13199-014-0303-1. **(P411) (IF2013: 0.941; Q4 Microbiology)**
- Matthews, T.J.**, Steinbauer, M.J., Tzirkalli, E., **Triantis, K.A.** & Whittaker, R.J. (2014). Thresholds and the species–area relationship: a synthetic analysis of habitat island datasets. *Journal of Biogeography*, **41**: 1018-1028. DOI: 10.1111/jbi.12286 **(P565) (IF2013: 4.969; Q1 Ecology)**
- Matthews, T.J.**, **Borges, P.A.V.** & Whittaker, R.J. (2014). Multimodal species-abundance distributions: a deconstruction approach reveals the processes behind the pattern. *Oikos*, **123**: 533–544. DOI: 10.1111/j.1600-0706.2013.00829.x **(P504) (IF2013: 3.559; Q1 Ecology)** (<http://hdl.handle.net/10400.3/3074>)
- Matthews, T.J.**, Borregaard, M.K., Ugland, K., **Borges, P.A.V.**, **Rigal, F.**, **Cardoso, P.** & Whittaker, R.J. (2014). The gambin model provides a superior fit to species abundance distributions with a single free parameter: evidence, implementation and interpretation. *Ecography*, **37**: 1002–1011. DOI: 10.1111/ecog.00861 **(P535) (IF2013: 4.207; Q1 Ecology)**
- Matthews, T.J.** & Whittaker, R.J. (2014). Neutral theory and the species abundance distribution: recent developments and prospects for unifying niche and neutral perspectives. *Ecology and Evolution*, **4**: 2263-2277. DOI: 10.1002/ece3.1092 (IF: 1.18) **(P611) (IF2013: 1.658; Q3 Ecology)**
- Matthews, T.J.** & Whittaker, R.J. (2014). On the species abundance distribution in applied ecology and biodiversity management. *Journal of Applied Ecology* DOI: 10.1111/1365-2664.12380 **(P672) (IF2013: 4.754; Q1 Ecology)**
- Matthews, T.J.**, Cottee-Jones, H.E. & Whittaker, R.J. (2014). Habitat fragmentation and the species–area relationship: a focus on total species richness obscures the

- impact of habitat loss on habitat specialists. *Diversity and Distributions*, **20**: 1136-1146. DOI: 10.1111/ddi.12227 **(646) (IF2013: 5.469; Q1 Ecology)**
- Parelho, C.**, Rodrigues, A.S., Cruz, J.V. & **Garcia, P.** (2014). Linking trace metals and agricultural land use in volcanic soils - a multivariate approach. *Science of the Total Environment* **496**: 241–247. DOI: 10.1016/j.scitotenv.2014.07.053 **(P620) (IF2013: 3.163; Q1 ENVIRONMENTAL SCIENCES)**
- Pimentel, R., Lopes, D.J.H,** Mexia, A.M.M. & Mumford, J.D. (2014). Spatial regression analysis of *Ceratitis capitata* Wiedemann (Diptera: Tephritidae) on Terceira Island, Azores. *International Journal of Pest Management*, **60**: 217-223. DOI: 10.1080/09670874.2014.958603 (IF: 0.750) **(648) (IF2013: 0.76; Q3 Entomology)**
- Rodrigues, A.S., Silva, S.E., Marabuto, E., Silva, D.N., Wilson, M.R., Thompson, V., Yurtsever, S., Halkka, A., **Borges, P.A.V.**, Quartau, J.A., Paulo, O.S., Seabra, S.G. (2014). New mitochondrial and nuclear evidences support recent demographic expansion and an atypical phylogeographic pattern in the spittlebug *Philaenus spumarius* (Hemiptera, Aphrophoridae). *PlosOne*, **9**(6): e98375. DOI:10.1371/journal.pone.0098375 **(P455) (IF2013: 3.534; Q1 Multidisciplinary Sciences) (<http://hdl.handle.net/10400.3/3072>)**
- Stenøien, H.K., Hassel, K., Segreto, R., **Gabriel, R.**, Karlin, E.F., Shaw, A.J. & Flatberg, K.I (2014). High morphological diversity in remote island populations of the peat moss *Sphagnum palustre*: glacial refugium, adaptive radiation or just plasticity? *The Bryologist*, **117**: 95-109. DOI: 10.1639/0007-2745-117.2.095 **(P539) (IF2013: 0.728; Q3 Plant Sciences)**
- Whittaker, R., **Rigal, F., Borges, P.A.V., Cardoso, P., Terzopoulou, S., Casanoves, F., Pla, L., Guilhaumon, F.,** Ladle, R. & **Triantis, K.A.** (2014). Functional biogeography of oceanic islands and the scaling of functional diversity in the Azores. *PNAS - Proceedings of the National Academy of Sciences*, **111**: 13709–13714. DOI: 10.1073/pnas.1218036111 **(P440) (IF2013: 9.809; Q1 Multidisciplinary Sciences)**

By Associate Research Fellows only (n= 19)

- Carvalho, J.C. & Cardoso, P.** (2014) Drivers of beta diversity in Macaronesian spiders in relation to dispersal ability. *Journal of Biogeography*, **41**: 1859–1870. DOI:10.1111/jbi.12348 **(P586) (IF2013: 4.969; Q1 Ecology) (<http://hdl.handle.net/10400.3/1638>)**
- Dapporto, L., **Fattorini, S.**, Voda, R., Dinca, V. & Vila, R. (2014). Biogeography of western Mediterranean butterflies: combining turnover and nestedness components of faunal dissimilarity. *Journal of Biogeography*, **41**, 1639–1650. DOI: 10.1111/jbi.12315 **(P600) (IF2013: 4.969; Q1 Ecology)**
- Di Giulio, A., **Fattorini, S.**, Moore, W., Robertson, J. & Maurizi, E. (2014). Form, function and evolutionary significance of stridulatory organs in ant nest beetles (Coleoptera: Carabidae: Paussini). *European Journal of Entomology*, **111**: 692–702. DOI: 10.14411/eje.2014.083 **(P625) (IF2013: 1.076; Q2 Entomology)**
- Fattorini, S.** & Salvati, L. (2014). Tenebrionid beetles as proxy indicators of climate aridity in a Mediterranean area. *Ecological Indicators*, **38**: 256–261. DOI: 10.1016/j.ecolind.2013.11.019 **(P561) (IF2013: 3.23; Q1 Environmental Sciences)**
- Fattorini, S.** (2014). Relations between Species Rarity, Vulnerability, and Range Contraction for a Beetle Group in a Densely Populated Region in the Mediterranean Biodiversity Hotspot. *Conservation Biology*, **28**: 169-176. DOI: 10.1111/cobi.12157 **(P553) (IF2013: 4.32; Q1 Ecology)**
- Fattorini, S.** (2014). Tenebrionid beetle distributional patterns in Italy: multiple colonization trajectories in a biogeographical crossroad. *Insect Conservation and Diversity*, **7**: 144-160. DOI: 10.1111/icad.12042 **(P520) (IF2013: 1,937; Q1 Entomology)**
- Fattorini, S.** (2014). Disentangling the effects of available area, mid-domain constraints, and species environmental tolerance on the altitudinal distribution of tenebrionid beetles in a Mediterranean area. *Biodiversity and Conservation*, **16**: 2531-2538. DOI: 10.1007/s10531-014-0738-y (IF: **(P622) (IF2013: 2.065; Q2 Ecology)**)
- Fattorini, S.** (2014). Island biogeography of urban insects: Tenebrionid beetles from

- Rome tell a different story. *Journal of Insect Conservation*, **18**: 729-735. DOI: 10.1007/s10841-014-9681-1 **(P623) (IF2013: 1.789; Q1 Entomology)**
- Fattorini, S.** (2014). Urban biodiversity hotspots are not related to the structure of green spaces: a case study of tenebrionid beetles from Rome, Italy. *Urban Ecosystems*, **17**: 1033–1045. DOI: 10.1007/s11252-014-0375-y. **(P643) (IF2013: 1.740; Q3 Ecology)**
- Fattorini, S., Monaco, R. Lo, Giulio, A.Di & Ulrich W.** (2014). Climatic correlates of body size in European tenebrionid beetles (Coleoptera: Tenebrionidae). *Organisms Diversity & Evolution*, **14**: 215–224. DOI: 10.1007/s13127-013-0164-0 **(P575) (IF2013: 3.365; Q2 Evolutionary Biology)**
- Patiño, J., Carine, M., Fernández-Palacios, J.M., Otto, R., Schaefer, H. & Vanderpoorten, A.** (2014). The anagenetic world of spore-producing land plants. *New Phytologist*, **201**: 305-311. DOI: 10.1111/nph.12480 **(P573) (IF2013: 6.373; Q1 Plant Sciences)**
- Patino, J., Weigelt, P., Guilhaumon, F., Kreft, H., Triantis, K.A., Naranjo-Cigala, A., Solymos, P., & Vanderpoorten, A.** (2014). Differences in species-area relationships among the major lineages of land plants: a macroecological perspective. *Global Ecology and Biogeography*, **23**: 1275–1283. DOI: 10.1111/geb.12230 **(P637) (IF2013: 7.242; Q1 Ecology)**
- Strona, G. & **Fattorini, S.** (2014). A few good reasons why species-area relationships do not work for parasites. *BioMed Research International*. 2014.: 1-5 DOI: [10.1155/2014/271680](https://doi.org/10.1155/2014/271680), Article ID 271680 **(P627) (IF2013: 2.706; Q2 Biotechnology & Applied Microbiology)**
- Strona, G. & **Fattorini, S.** (2014). Parasitic worms: how many really? *International Journal for Parasitology*, **44**: 269–272. DOI: 10.1016/j.ijpara.2014.01.002 **(P629) (IF2013: 3.404; Q1 Parasitology)**
- Strona, G., Galli, P., Seveso, D., Montano, S. & **Fattorini, S.** (2014). Nestedness for Dummies (NeD): a user friendly web interface for exploratory nestedness analysis. *Journal of Statistical Software*, **59**: Code Snippet 3: 1-9. (IF: 4.910) **(P628) (IF2013: 3.801; Q1 Statistics & Probability)**
- Strona, G., Montano, S., Severo, D., Galli, P. & **Fattorini, S.** (2014) Identification of

Monogenea made easier: a new statistical procedure for an automatic selection of diagnostic linear measures in closely related species. *Journal of Zoological Systematics and Evolutionary Research*, **52**: 95-99. DOI: 10.1111/jzs.12050 **(P563) (IF2013: 1,919; Q1 Zoology)**

Strona, G., Nappo, D., Boccacci, F., **Fattorini, S.** & San-Miguel-Ayanz, J. (2014). An unbiased procedure to randomize presence–absence data matrices with fixed row and column totals. *Nature Communications*, **5**: 4114. DOI: 10.1038/ncomms5114 **(P624) (IF2013: 10,742; Q1 Multidisciplinary Science)**

Strona, G. & **Fattorini, S.** (2014). On the methods to assess significance in nestedness analyses. *Theory in Biosciences*, **133**: 179-186. DOI: 10.1007/s12064-014-0203-1 **(P626) (IF2013: 1.078; Q3 Biology)**

Sujarwo, W., Arinasa, I.B K., Salomone, F., Caneva, G. & **Fattorini, S.** (2014). Cultural Erosion of Balinese Indigenous Knowledge of Food and Nutraceutical Plants. *Economic Botany*, **68**: 426–437. DOI: 10.1007/s12231-014-9288-1 **(P671) (IF 2013: 0.772; Q3 Plant Sciences)**

BOOKS

2014 (n = 3)

By at least one integrated member (n = 3)

Boieiro, M., Aguiar, A.F., Aguiar, C.A.S., **Borges, P.A.V., Cardoso, P., Crespo, L.,** Menezes, D., **Pereira, F., Rego, C.,** Silva, I., Silva, P.M. & Serrano, A.R.M. (2013, available in 2014). *Madeira, the biodiversity pearl - valuing the native habitats and endemic life forms*. Sociedade Portuguesa de Entomologia, Lisboa, 80pp., ISBN: 978-972-97241-5-2 **(P547)**

Lima, M., Rodrigues, A. & **Garcia, P.** (Eds) (2014). *Biologia, um ano de ciência*. 72 pp. Universidade dos Açores, Ponta Delgada. **(P632)**

Nunes, L., Jones, D., Hill, C., Miltitz, H. (Eds) (2014). Proceedings of the Seven European Conference on Wood Modification (ECWM7). LNEC, Lisbon, March 10-12, 2014.

(P706)

BOOK CHAPTERS

2014 (n = 4)

By at least one integrated member (3)

Gil A., Calado H. & Fonseca C. (2014-2015). **Participatory planning for the definition of sustainable mobility strategies in small islands: a case study in S. Miguel Island (Azores, Portugal)**. In: F. Orsini (ed.) *Sustainable Transportation in Natural and Protected Areas*. Routledge, Oxford, UK. ISBN: 978-1-13-878857-2. <http://routledge-ny.com/books/details/9781138788572/> 304 pp. (P642).

Neilson, A. L., Gabriel. R., Arroz, A. M., & Mendonca, E. (2014) **Perspectives about the Sea in the Azores: Respecting narratives that sustain inshore fishing communities**. In J. Urquhart, T. Acott, & M. Zhao (Eds.) *Social Issues in Sustainable Marine Fisheries Management* MARE Publication Series, Vol. 9., pp. 319-338. Dordrecht, NL: Springer. ISBN 978-94-007-7910-5; ISBN 978-94-007-7910-5; DOI: 10.1007/978-94-007-7911-2_17 (P444).

Rodrigues, A. S. & Garcia, P. (2014-2015). **Non-eruptive volcanogenic air pollution and health effects**. In: Watson, R.R., Tabor, J.A, Ehiri, J.E. & Preedy, V.R. (Eds.) *Handbook of public health in natural disasters*. Human Health Handbooks, Wageningen Academic Publishers, Netherlands, ISBN: 978-90-8686-257-3, 650 pp. (P633).

By Associate Research Fellows only (n = 1)

Fattorini, S., Leo, P., Liberto, A., Biscaccianti, A.B., Audisio, P., Carpaneto G.M. (2014) **Famiglia Tenebrionidae**. Appendice 1 e schede tecniche on line (www.iucn.it),

in: Audisio, P., Baviera, C., Carpaneto, G.M., Biscaccianti, A.B., Battistoni, A., Teofili, C., Rondinini, C. (Eds) 2014: Lista Rossa IUCN dei Coleotteri saproxilici Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma. **(P700)**.

NATIONAL AND INTERNATIONAL PEER REVIEWED PAPERS (NO IMPACT FACTOR)

2014 (n= 15)

By at least one integrated member (n = 13)

Barreiros J.P., Elias, R.B., Gabriel, R., Rodrigues, P., Barcelos, L.D., Branco, J.O. & Borges, P.A.V. (2014). The Yellow-crowned Night Heron *Nyctanassa violacea* (Aves: Pelecaniformes: Ardeidae) in the Azores and Madeira Archipelagos: a new species for the Western Palearcti. *Arquipélago Life and Marine Sciences*, **31**: 37-43. **(P577)**

Calado, H. & **Gil, A.** (2014). Establishing, planning and managing protected areas in small islands - Editorial. *Journal of Integrated Coastal Zone Management / Revista de Gestão Costeira Integrada*, **14**(2): 163-165. DOI:10.5894/rgci528 **(P618)**

Calado, H., Fonseca, C., Vergílio, M., Costa, A.C., Moniz, F., **Gil, A.** & Dias, J.A. (2014). Small Islands Conservation and Protected Areas. *Journal of Integrated Coastal Zone Management / Revista de Gestão Costeira Integrada*, **14**(2): 167-174. DOI:10.5894/rgci523 **(P619)**

Calado, H., Vergílio, M., Fonseca, C., **Gil, A.**, Moniz, F., Silva, S.F., Moreira, M., Bragagnolo, C., Silva, C.P. & Pereira, M. (2014). Developing a Planning and Management System for Protected Areas on Small Islands (The Azores Archipelago, Portugal): the SMARTPARKS Project. *Journal of Integrated Coastal Zone Management / Revista de Gestão Costeira Integrada*, **14**(2): 335-344. DOI:10.5894/rgci496 **(P590)**

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