

1. PERSONAL INFORMATION

Name: Gustavo Oliveira de Meneses Martins

Birth date: 11/01/80

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2. ACADEMIC INFORMATION

2009 – PhD, University of Plymouth, Marine Ecology.

2005 – Master of Research, University of Plymouth, Marine Biology.

2003 – Graduation in Biology, Universidade dos Açores.

3. PRESENT POSITION

Since January 2009 – Post-doc FCT pelo CIIMAR e CIRN, Departamento de Biologia, Universidade dos Açores

4. AREA OF SCIENTIFIC ACTIVITY & CURRENT RESEARCH INTERESTS

4.1. Domains of specialization

Coastal Ecology – ecology and conservation of littoral habitats.

Exploitation of intertidal gastropods.

4.2. Current research interests

- (i) Patterns and processes in shallow-water marine ecosystems;
- (ii) Exploitation of key gastropods as drivers of community change;
- (iii) Effects of coastal urbanisation on shallow-water communities;
- (iv) Continental versus insular ecosystems: patterns and processes;
- (v) Effects of climate change in mediating species interactions.

5. SUPERVISING EXPERIENCE

5.1. Doctoral Theses

Influence of climate change on rocky intertidal communities of the Azores. Co-supervision with Stephen Hawkins (University of Southampton) and Ana I Neto (Universidade dos Açores).

- Time frame: 2012- 2015.
- Student: Maria Luis Adrião do Vale (University of Southampton).
- Domain field: Marine Biology

5.2. Master theses

Crescimento de *Ulva* em condições de stress luminoso, salino e térmico.

- Time frame: 2012 - 2014.
- Student: Bruno Ivo Martins Marques Magalhães (Universidade dos Açores).
- Domain field: Marine Botany

Funcionamento de comunidades intertidais: o papel das algas frondosas.

- Time frame: 2012 - 2013.
- Student: Afonso Costa Lucas Prestes (Universidade dos Açores).
- Domain field: Marine Biology

As lapas (*Patella aspera* Röding, 1798) como habitat de macroalgas.

- Time frame: 2012 - 2013.
- Student: Miguel Aguiar Furtado (Fac. Ciências, Universidade de Lisboa & Universidade dos Açores).
- Domain field: Marine Biology

Avaliação do efeito da natureza do substrato em comunidades intertidais.

- Time frame: 2012 - 2013.
- Student: Eunice Rute Magalhães Nogueira Xavier (Universidade dos Açores).
- Domain field: Marine Ecology

Crescimento de *Ulva* em condições de stress de macronutrientes.

- Time frame: 2012 - 2013.
- Student: Maria Inês Luíz de Melo Almeida Pavão (Universidade dos Açores).
- Domain field: Marine Botany

Spatial patterns on distribution of marine exotic species in urbanised coastal areas.

- Time frame: 2011 - 2012.
- Student: Olalla Torrontegi Vega (University of the Basque Country & Universidade dos Açores).
- Domain field: Marine Ecology

6. PARTICIPATION IN PROJECTS

R&D Projects

ECOSUBVEG - Changes in submersed vegetation: assessing loss in ecosystems services from frondose to depauperate systems dominated by opportunistic vegetation.

- Time frame: 2013 – 2016.
- Funding entity: Voluntary Scheme for Biodiversity and Ecosystem Services in Territories of the EU Outermost Regions and Overseas Countries and Territories, BEST 07.032700/2012/635752/SUB/B2.
- Role: Investigator.

BUS - Estruturas Urbanas: um fator de mudança na biodiversidade dos ecossistemas costeiros?

- Time frame: 2013 - 2015.
- Funding entity: The Portuguese Science and Technology Foundation. PTDC/MAR-EST/2160/2012.
- Role: Investigator.

SEA - Stock assessment of species with potential interest for exploration.

- Time frame: 2012 - 2015.
- Funding entity: Regional Direction for Science, Technology. M2.1.2/I/004/2011.

- Role: Principal Investigator.

METHADE – Effects of Habitat Destruction on Marine Benthic Metacommunities: A Multi-Habitat Field Study.

- Time frame: 2012 - 2015.
- Funding entity: The Portuguese Science and Technology Foundation. PTDC/MAR/120770/2010.
- Role: Principal Investigator.

PATELGENE - Genetic Structure of Azorean Limpets: Implications for Conservation and Marine Protected Areas.

- Time frame: 2011 - 2013.
- Funding entity: The Portuguese Science and Technology Foundation. PTDC/BIA-BIC/115837/2009.
- Role: Investigator.

7. OTHER PROFESSIONAL ACTIVITIES

a) Member of the Scientific Committee of

- 2008, 43rd *European Marine Biology Symposium*

b) Organization of scientific events (In P Delgada, Azores):

- International Workshops
 - “METHADE – Effects of Habitat Destruction on Marine Benthic Metacommunities: a Multi-Habitat Field Study”, 23-28 July 2014;
 - “Marine organisms and shallow water CO₂ vents”, 2-6 July 2014;
- International Seminars – CIRN Cycle of Science
 - “Ecology and Conservation of Patella in the Azores”, 7 March 2014.

c) Lecturing

- Experimental Design and Sampling, 3rd Cycle in Biology DB/ UAC

d) Reviewer for scientific journals

- Marine Ecology Progress Series
- Aquatic Biology
- Marine Ecology
- Aquatic Ecology
- Journal of Experimental Marine Biology and Ecology
- Estuarine, Coastal and Shelf Sciences
- Marine Biology
- Biodiversity and Conservation
- Hydrobiologia
- Helgoland Marine Research
- Biological Conservation
- Bulletin of Marine Science
- Coastal Engineering
- Journal of Animal Ecology
- Journal of Applied Ecology
- Journal of Marine Biology
- Marine and Freshwater Research

- PLoS One
- Environmental Management
- Journal of the Marine Biological Association of the UK
- Marine Environmental Research

d) Other

- Science dissemination to the local community

8. PUBLICATIONS

Thesis

Martins GM, 2009. Community Structure and dynamics of the Azorean rocky intertidal: Exploitation of keystone species. PhD Thesis. University of Plymouth.

Martins GM, 2005. Changes in the effects of patch size and shore height on the structure and functioning of rock pools with succession. Master of Research Thesis. University of Plymouth.

Martins GM, 2003. Padrões de colonização e sucessão de substratos artificiais no litoral de São Miguel, Açores. Licenciatura em Biologia. Universidade dos Açores.

Books chapter

Jenkins SR & **Martins GM**, 2010. *Succession on Hard Substrata*. In: Dürr S, Thomason JC (eds) *Biofouling*. Wiley-Blackwell pp. 60-72.

Conference Proceedings Editor

Neto AI, Boero F, Heip C, Azevedo JMN, **Martins G**, Tittley I, Wilkinson M, Zacharias M & Rodrigues AS (Eds.), 2009. Marine ecology and evolutionary perspective. Proceedings for the 43th European Marine Biology Symposium. *Marine Ecology*, 30, Suppl. 1. Wiley-Blackwell, Società Italiana di Biologia Marina and AIOL (Associazione Italiana di Oceanologia e Limnologia) Publishers.

Papers in international refereed periodicals

Faria J, Rivas M, **Martins GM**, Hawkins S, Ribeiro P, Pita A, Neto AI & Presa P, 2015. A new multiplexed microsatellite tool for metapopulation studies in the overexploited endemic limpet *Patella aspera* (Roding, 1798). *Animal Genetics*, 46: 96-97, doi: 10.1111/age.12243, IF (2013)= 2.210.

Martins GM, Jenkins SR, Ramírez R, Tuya F, Neto AI, Arenas F, 2014. Early patterns of recovery from disturbance in intertidal algal assemblages: consistency across regions within a marine province. *Marine Ecology Progress Series*, 517: 131-142, doi: 10.3354/meps11051, <http://hdl.handle.net/10400.3/3253>, IF (2014)= 2.640.

Martins GM, Faria J, Furtado M, Neto AI, 2014. Shells of *Patella aspera* as 'islands' for epibionts. *Journal of the Marine Biological Association of the United Kingdom*, 94(5): 1027-1032, doi 10.1017/S0025315414000447, <http://hdl.handle.net/10400.3/3126>, IF (2013)= 1.655.

Raposeiro PM, **Martins GM**, Moniz I, Cunha A, Costa AC & Gonçalves V (2014) Leaf litter decomposition in remote oceanic islands: The role of macroinvertebrates vs. microbial decomposition of native vs. exotic plant species. *Limnologica* 45, 80-87 doi: 10.1016/j.limno.2013.10.006. IF(2013) = 1.66

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- Vaz-Pinto F, Torrontegi O, Prestes ACL, Álvaro NV, Neto AI, **Martins GM**, 2014. Invasion success and development of benthic assemblages: effect of timing, duration of submersion and substrate type. *Marine Environmental Research*, 94: 72-79, <http://dx.doi.org/10.1016/j.marenvres.2013.12.007>, <http://hdl.handle.net/10400.3/3251>, IF (2013)= 2.328.
- Martins GM**, Faria J, Rubal M & Neto AI, 2013. Linkages between rocky reefs and soft-bottom habitats: effects of predation and granulometry on sandy macrofaunal assemblages *Journal of Sea Research*, 81: 1-9, DOI 10.1016/j.seares.2013.03.007, <http://hdl.handle.net/10400.3/2101>, IF (2013)= 1.855.
- Martins GM**, Patarra RF, Álvaro NV, Prestes ACL & Neto AI, 2013. Effects of coastal orientation and depth on the distribution of subtidal benthic assemblages. *Marine Ecology* 34: 289-297 (<http://onlinelibrary.wiley.com/doi/10.1111/maec.12014/abstract>). doi 10.1111/maec.12014, <http://hdl.handle.net/10400.3/2099>, IF (2013)= 2.561.
- Martins GM**, Prestes ACL & Neto AI, 2013. Effects of density versus size on grazing by a key exploited herbivore. *Vie et Milieu– Life and Environment*, 63: 35-40, <http://www.obs-banyuls.fr/Viemilieu/index.php/volume-63-2013/63-issue-1/631-article-4.html>), <http://hdl.handle.net/10400.3/2995>, IF (2013)= 0.371.
- Martins GM**, Arenas F, Neto AI & Jenkins SR, 2012. Effects of Fishing and Regional Species Pool on the Functional Diversity of Fish Communities. *PLoS ONE*, 7(8): e44297. doi:10.1371/journal.pone.0044297, <http://hdl.handle.net/10400.3/1676>, IF (2012)= 3,53.
- Martins GM**, Jenkins SR, Hawkins SJ, Neto AI, Medeiros AR & Thompson RC, 2011. Illegal harvesting affects the success of fishing closure areas. *Journal of the Marine Biological Association UK*, 91 (4): 929-937, DOI 10.1017/S0025315410001189, <http://hdl.handle.net/10400.3/2165>, IF (2011) = 1.13.
- Martins GM**, Thompson RC, Neto AI, Hawkins SJ & Jenkins SR, 2010. Enhancing stocks of the exploited limpet *Patella candei* via modifications in coastal engineering. *Biological Conservation*, 143: 203-211, DOI 10.1016/j.biocon.2009.10.004, <http://hdl.handle.net/10400.3/2041>, IF (2010) = 3.498.
- Martins GM**, Thompson RC, Neto AI, Hawkins SJ & Jenkins SR, 2010. Exploitation of intertidal grazers as a driver of community divergence. *Journal of Applied Ecology*, 47: 1282-1289, DOI 10.1111/j.1365-2664.2010.01876.x, <http://hdl.handle.net/10400.3/1678>, IF (2010) = 4.970.
- Martins GM**, Amaral AF, Wallenstein FM & Neto AI, 2009. Influence of a breakwater on nearby rocky intertidal community structure. *Marine Environmental Research*, 67: 237–245, <http://hdl.handle.net/10400.3/2020>, IF (2010) = 1.953.
- Cunha L, Amaral A, Medeiros V, **Martins GM**, Wallenstein FM, Couto RP, Neto AI & Rodrigues AS, 2008. Bioavailable metals and cellular effects in the digestive gland of marine limpets living close to shallow water hydrothermal vents. *Chemosphere*, 71: 1356-1362, DOI 10.1016/j.chemosphere.2007.11.022, <http://hdl.handle.net/10400.3/966>, IF (2010) = 3.155.
- Martins GM**, Jenkins SR, Hawkins SJ, Neto AI & Thompson RC, 2008. Exploitation of rocky intertidal grazers: population status and potential impacts on community structure and functioning. *Aquatic Biology*, 3: 1-10, DOI 10.3354/ab00072, <http://hdl.handle.net/10400.3/2141>, IF (2010) = 1.611.

Martins GM, Thompson RC, Hawkins SJ, Neto AI & Jenkins SR, 2008. Rocky intertidal community structure in oceanic islands: scales of spatial variation. *Marine Ecology Progress Series*, 356: 15-24, DOI 10.3354/meps07247, <http://hdl.handle.net/10400.3/2167>, IF (2008) = 2.631.

Cunha L, **Martins GM**, Amaral A & Rodrigues A, 2007. A case of simultaneous hermaphroditism in the Azorean endemic limpet *Patella candei gomesii* (Mollusca: Patellogastropoda), a gonochoristic species. *Invertebrate Reproduction and Development* 50(4): 203-206, doi: 10.1080/07924259.2007.9652247, IF(2013) = 0.667.

Martins GM, Hawkins SJ, Thompson RC & Jenkins SR, 2007. Community structure and functioning in rock pools: effects of patch size and shore height at different successional stages. *Marine Ecology Progress Series*, 329: 43-55. doi:10.3354/meps329043, IF(2007) = 2.546.

Martins GM, Wallenstein FM, Álvaro NV, Neto AI & Costa AC, 2005. Sampling strategies for biotope definition: minimal sampling area for selected groups of macroinvertebrates in the rocky subtidal of São Miguel, Azores. *Helgoland Marine Research*, 59: 219-223, DOI 10.1007/s10152-005-0222-x, <http://hdl.handle.net/10400.3/2030>, IF (2010) = 1.671.

9. COMUNICATIONS

Oral presentations by invitation

Vale M, Neto AI, **Martins GM**, Hawkins SJ, 2013. Evidence of long-term changes in the distribution of key intertidal species. Jornadas de Biodiversidade “Ecology of rocky shores” - CIRN: Ciclo de Ciência 2013, Universidade dos Açores, Ponta Delgada, 4 July.

Oral presentations in International Conferences

Cacabelos E, **Martins GM**, Prestes ACL, Thompson RC, Azevedo JMN & Neto AI, 2014. Effects of substratum type and matrix on intertidal assemblages colonizing artificial structures, XVIII Simpósio Ibérico de Estudos de Biologia Marinha, Abstract Book, p. 127, Centro Oceanográfico de Gijón, Gijón, Espanha, 2-5 September.

Moniz I, Matias MG, Neto AI, Jenkins SR & **Martins GM**, 2014. Habitat isolation and size influence the structure of macroinvertebrate benthic assemblages, Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research, Peniche, 10-11 July.

Martins GM, Prestes ACL, Neto AI, 2013. Population structure in high shore littorinids: contrast between riprap and rocky shores. *World Congress of Malacology*, Abstract Book, pp. 363-364, Universidade dos Açores, Ponta Delgada, 21-28 July, <http://hdl.handle.net/10400.3/3010>.

Vale M, Ribeiro P, Golbold J, Neto AI, **Martins GM**, Hawkins SJ, 2013. Temporal variation in reproductive phenology of *Patella* spp.: past and present. *World Congress of Malacology*, Abstract Book, pp. 337-338, Universidade dos Açores, Ponta Delgada, 21-28 July, <http://hdl.handle.net/10400.3/2999>.

Martins GM, Thompson RC, Hawkins SJ, Neto AI & Jenkins SR, 2011. Exploitation of keystone species: population and community-level effects. *IV Congresso da Ordem dos Biólogos e II Congresso dos Biólogos dos Açores*, Painel Biologia Marinha e Oceanografia, Abstract Book, p. 53, Ponta Delgada, Açores, 13-15 October, <http://hdl.handle.net/10400.3/1699>.

Neto AI, **Martins GM**, Wallenstein FM & Titley I, 2010. Marine phycological research in the Azores: past, present and future. *International Symposium FloraMac 2010*, Abstract Book, p. 33, Ponta Delgada, Açores, 23-25 September.

Martins GM, Jenkins SR, Hawkins SJ, Neto AI & Thompson RC, 2009. The exploitation of patellid limpets in the Azores. *International Meeting on Marine Resources*, Abstract Book, p. 39, Peniche, Portugal, 16-18 November. <http://hdl.handle.net/10400.3/1781>.

Thompson RC, Moore PJ, **Martins GM**, Sheehan EV, Coombes MA, Moschella PS, Hawkins SJ, 2009. Making space for nature in marine engineering. *International Temperate Reefs Symposium*, Adelaide, Australia, January 2009.

Martins GM, Thompson RC, Neto AI, Hawkins SJ & Jenkins SR, 2008. Microhabitat provision influences small-scale patterns of distribution in *Patella candei*. *43rd European Marine Biology Symposium*, Abstract Book, p. 49-50, Ponta Delgada, Açores, 8-12 September, <http://hdl.handle.net/10400.3/1782>.

Moore P, Chadwick A, Jensen A, **Martins G**, Thompson R, 2008. Incorporating 'smart ecological design' into offshore renewable energy developments. *International Scientific Meeting on Marine Renewable Energy and the Environment*, Plymouth.

Martins GM, Neto AI, Hawkins SJ, Thompson RC & Jenkins SR, 2007. Population and community level effects of exploitation of rocky intertidal grazers. *42nd European Marine Biology Symposium*, Abstract Book, p. 114, Kiel, Alemanha, 27-31 August, <http://hdl.handle.net/10400.3/1786>.

Martins GM, Hawkins SJ, Thompson RC, Jenkins SR (2006) Community structure and functioning in rock pools: effects of patch size and shore height at different successional stages. *7th International Temperate Reefs Symposium*. Santa Barbara, California.

Posters in Conferences

Cacabelos E, **Martins GM**, Thompson R, Prestes A, Azevedo JMN & Neto AI, 2015. Marine assemblages on natural shores and coastal defence structures. *3rd International Symposium on Effects of Climate Change on the World's Oceans*, Abstract Book, p. 235, Santos, Brazil, 21-27 March.

Cacabelos E, **Martins GM**, Sánchez R, Busquier L, Mosquera R & Neto AI, 2014. Do man-made habitats affect patterns of spatial distribution of mollusc?, XVIII Simpósio Ibérico de Estudos de Biologia Marinha, Abstract Book, p. 65, Centro Oceanográfico de Gijón, Gijón, Espanha, 2-5 September.

Cacabelos E, **Martins GM**, Moniz I, Thompson R, Prestes A, Azevedo JMN, Neto AI, 2014. Aggregated and dispersed configuration of microhabitats in coastal defenses: Implications for restoration of populations. *Front. Mar. Sci. Conference Abstract: IMMR - International Meeting on Marine Research*, Peniche, 10-11 July, Doi: 10.3389/conf.FMARS.2010.02.00033.

Faria J, Presa P, **Martins GM**, Ribeiro P, Neto AI, 2014. Genetic population structure and connectivity of Azorean limpets. *Ocean Science Meeting*. Hawaii Convention Center, Honolulu, Hawaii, USA, 23-28 February.

Faria J, Ribeiro P, **Martins GM**, Rivas M, Hawkins S, Presa P, Neto AI, 2014. Conservation of limpet populations: a heavily exploited resource in Azores, NE-Atlantic. *10th International Temperate Reefs Symposium*, Abstract Book, p. 178. The University of Western Australia, 12-17 January.

- Faria J, **Martins GM**, Furtado M, Neto AI, 2013. Shells of the limpet *Patella aspera* as habitat for epibionts. *World Congress of Malacology*, Abstract Book, p. 355. Universidade dos Açores, Ponta Delgada, 21-28 July, <http://hdl.handle.net/10400.3/3005>.
- Martins GM**, Faria J, Furtado MA, Enes M, Neto AI, 2013. Shell variation in patellid limpets: scales of spatial variability. *World Congress of Malacology*, Abstract Book, p. 352. Universidade dos Açores, Ponta Delgada, 21-28 July, <http://hdl.handle.net/10400.3/3009>.
- Rivas M, Faria J, Ribeiro P, Presa P, **Martins GM**, Neto AI, 2013. Development and characterization of microsattelite loci for the harvested limpets *Patella candei* (d'Orbigny, 1839) and *Patella aspera* (Röding, 1798) using 454 sequencing. *World Congress of Malacology*, Abstract Book, pp. 119-120. Universidade dos Açores, Ponta Delgada, 21-28 July, <http://hdl.handle.net/10400.3/3034>.
- Vale M, Neto AI, **Martins GM**, Hawkins SJ, 2013. Evidence of long-term changes in the distribution of key intertidal species. *World Congress of Malacology*, Abstract Book, p. 239. Universidade dos Açores, Ponta Delgada, 21-28 July, <http://hdl.handle.net/10400.3/3035>.
- Prestes ACL, Neto AI, Rodrigues AS & **Martins GM**, 2013. Avaliação do Stock de abalones: uma pesca sustentável. Jornadas "Ciência nos Açores- que futuro?", PCNA-P-57, Livro de Resumos, p. 96. Biblioteca Pública e Arquivo Regional de Ponta Delgada, Largo do Colégio, Ponta Delgada, 7-8 June, <http://hdl.handle.net/10400.3/3033>.
- Torrentegi O, **Martins GM**, Prestes ACL, Álvaro NV & Neto AI, 2012. Spatial patterns of distribution of non-indigenous marine species in urban coastal areas: the influence of vessel traffic activity. "International Symposium FloraMac2012", P58, Abstract Book, p. 114. Colegio dos Jesuitas, Funchal, Madeira, 5-8 September, <http://hdl.handle.net/10400.3/1718>.
- Torrentegi O, Garcia SA, Prestes ACL, Patarra RF, Garcia A, Rosas-Alquicira EF, Álvaro NV, **Martins GM** & Neto AI, 2010. The effect of natural vs. artificial substrata on the development of benthonic assemblages inside marinas. *International Symposium FloraMac 2010*, Abstract Book, p. 70, Ponta Delgada, Açores, 23-25 September, <http://hdl.handle.net/10400.3/1824>.
- Valentim AL, **Martins GM** & Neto AI, 2009. Are seawalls made of natural substrata better? *International Meeting on Marine Resources*, Abstract Book, p. 103, Peniche, Portugal, 16-18 November, <http://hdl.handle.net/10400.3/1743>.
- Medeiros AR, **Martins GM** & Neto AI, 2008. Patterns of anthropogenic activities in the rocky intertidal of São Miguel. *43rd European Marine Biology Symposium*, Abstract Book, p. 74, Ponta Delgada, Açores, 8-12 September, <http://hdl.handle.net/10400.3/1736>.
- Rodrigues AS, Cunha LN, **Martins GM**, Wallenstein FM, Couto RP, Neto AI & Amaral A, 2007. Structural effects in the digestive gland of marine limpets living close to superficial hydrothermal vents. *SETAC North America 28th Annual Meeting – Urban Environmental Issues: Impacts on Ecological Systems*, Abstract Book, p. 251, Milwaukee, Wisconsin, Estados Unidos da América, 11-15 November, <http://hdl.handle.net/10400.3/1763>.
- Martins GM**, Enoch M, Neto AI & Álvaro NV, 2003. Patterns of colonization and succession of fouling communities in different types of substrates on the southern coast of the Island of São Miguel, Azores. *38th European Marine Biology Symposium*, Program and Abstracts, p. 129, Aveiro, Portugal, 8-12 September, <http://hdl.handle.net/10400.3/1841>.