Miguel José Teodoro Correia

CURRICULUM VITAE

Faro

2020

Curriculum vitae

1. Personal data

Full name

Miguel José Teodoro Correia

National identity card

11210215

Birthplace and date

Lisboa, 26-08-1977

Nationality

PORTUGAL

Institutional address

Universidade do Algarve - Campus de Gambelas FCT, Laboratório 1.19

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2. Summary

Miguel José Teodoro Correia started his research career in 2003 when he obtains the BSc degree from the Universidade do Algarve, addressing cuttlefish (*Sepia officinalis*) aquaculture & husbandry. From this study, he published 1 paper as first author. Later in 2006, he graduated in MSc at the Universidade de Lisboa, studying the proper feed for juvenile cuttlefish in laboratory. From this research, he published 2 papers as first author. He started his PhD in 2009 obtained the degree in 2015 with honors (*Summa Cum Laude*) from Universidade do Algarve. His PhD research addressed the conservation and mitigation actions of 2 seahorse species (*Hippocampus guttulatus* and *Hippocampus hippocampus*). More than 400 hours were spent in underwater research. This work resulted in 6 papers as first author. Besides the scientific dissemination, this researcher promoted innumerous media releases, both nationally and internationally, that aimed to raise awareness regarding marine conservation using seahorses as a flagship species. This researcher has been involved in Project Seahorse (http://www.projectseahorse.org) as research associate since 2010 to date. He has also been involved in the IUCN Red List assessment regarding seahorse species as a specialist (https://iucn-seahorse.org). This researcher has published a total of 18 peer-reviewed papers, he co-supervised 7 MSc students and 2 Undergraduate students. He participated in a total of 7 Research Projects in different capacities. He is a co-founder of SHRIMPPO – a start-up company that breeds aquatic species for the ornamental market.

3. Academic degrees

Year	Academic degree	Institution	Classification
2015	PhD	Faculdade de Ciências e Tecnologias, Universidade do Algarve - Supervisors: José Pedro Andrade, PhD & Heather Koldewey, PhD	*Summa cum laude* (with the highest honors)
2007	MSc	Faculdade de Ciências da Universidade de Lisboa - Supervisors: José Pedro Andrade, PhD & Henrique Cabral, PhD	Very Good
2003	BSc	Faculdade de Ciências do Mar e do Ambiente, Universidade do Algarve - Supervisors: José Pedro Andrade, PhD & Pedro Domingues, PhD	13/20

4. Previous and current scientific and/or professional activities

Period	Position or category	Institution(s)
01/03/2019 (ongoing)	Honorary Member - The Hippocampus Marine Institute wants to incorporate research on the study and monitoring of the seahorse, while creating a permanent observatory for the research and conservation of this rare species.	hippocampus marine institute
01/12/2018 (ongoing)	Member - As the recognized global authority on seahorses, pipefishes, sticklebacks, and their relatives, we are dedicated to the conservation of these important fishes. The IUCN Seahorse, Pipefish and Seadragon Specialist Group provides independent technical and scientific advice to governments and other groups to improve the conservation status of these species (https://iucn-seahorse.org).	Seahorse Pipefish & Seadragon Specialist Group
02/03/2018 (ongoing)	Research grant – "HIPPONUTRE" - (Breeding the long-snouted seahorse, *Hippocampus guttulatus*: zootechnical optimization and assessment of nutritional requirements). Programa Operacional MAR2020, Fundo Europeu dos Assuntos Marítimos e das Pescas (FEAMP) - Project reference: MAR-02.01.01-FEAMP-0054. Tasks include breeding and maintenance of seahorses in captivity and nutritional requirements related experiments.	UAlg UNIVERSIDADE DO ALGARVE

01/11/2017 (ongoing)	Principal investigator in Project entitled “The unknown European seahorses: contribution to increasing the knowledge for the classification and conservation status of the Atlantic seahorse in Portugal”. The project will contribute to increase the knowledge on the European seahorse (*Hippocampus hippocampus* and *Hippocampus guttulatus*) in Portugal to allow the correct IUCN red list assessment of its vulnerability status.	
03/02/2017 (ongoing)	Co-founder of SHRIMPPO, lda., a start-up company from Universidade do Algarve/CCMAR that aims to breed several aquatic organisms for commercial purposes. This company is the first to introduce *Hippocampus hippocampus* and *Hippocampus guttulatus* as a new species in the marine ornamental market, with the respective CITES documents.	
21/07/2019 to 30/09/2019	“Plastic Free Ria Formosa” - Coordination of the underwater litter collection to rehabilitate seahorse habitat. I participated in the underwater operations which led to the removal total of 17.6 m^3 of marine litter.	
02/06/2019 to 04/06/2019	Census of the seahorse populations and seagrass monitoring done under my supervision. This census was done as part of the monitoring process post-dredging to assess eventual impacts.	
03/05/2019 to 10/05/2019	Scientific co-ordinator of the International Marine Biology Summer School-Survey, which aimed to study the seahorses in Stratoni, Greece with the participation of 19 volunteers and CCMAR’s scientific dive centre. I provided theoretical and practical training on seahorse underwater visual census.	
01/11/2017 to 31/12/2018	Awareness campaign regarding the illegal fisheries of seahorse populations in the Ria Formosa lagoon. This campaign has my scientific consultancy and aims to engage all stakeholders and decision makers to tackle the illegal activities that impact seahorses in the Ria Formosa. The campaign includes activities in schools partnered with other relevant entities such as ANP – WWF Portugal and SCIAENA.	
10/12/2017 to 15/12/2017	Census of the seahorse populations in Stratoni, Greece. This census was done in cooperation with UFR technical diving team (http://www.ufr-team.com) and aimed to develop a plan to protect a small seahorse population (*H. guttulatus* and *H. hippocampus*). A documentary was done under my scientific consultancy.	

1/08/2017 to 30/09/2017	Census of the seahorse populations in Fuseta under the programme "Levantamento da situação ecológica na área de intervenção do projeto de reforço do cordão dunar das ilhas da Armona e Tavira - praia da Fuseta-mar e extremo poente da ilha de Tavira - Monitorização das Comunidades Biológicas". This census was done under my responsibility and aimed to inform local authorities in decision making regarding the dredging activities.	RIA FORMOSA POLIS LITORAL
11/07/2015 to 31/08/2015	Implementation of a plan of translocation of seahorses (*Hippocampus guttulatus* and *Hippocampus hippocampus*) in 2 areas of intervention of dredging activities in the Ria Formosa lagoon. This plan included scientific diving for seahorse population census, seahorse capture, transportation and release. This intervention aimed to protect a seahorse population from the effects of dredging for main channel maintenance. All tasks were performed in the Ria Formosa lagoon.	RIA FORMOSA POLIS LITORAL
01/04/2014 to 30/06/2015	Research grant – "HIPPOSAFE" – From abundance to disappearance. Identifying causes for *Hippocampus guttulatus* population decrease in the Ria Formosa. Fundação para a Ciência e Tecnologia (FCT). Project reference: PTDC/MAR/122616/2010. Tasks included scientific diving for seahorse population monitoring, deployment of artificial structure for habitat enrichment, seahorse maintenance and indoor experiments.	CCMAR
01/04/2013 to 30/09/2013	Research grant – "HIPPOFIN" - Breeding and sampling techniques for genetic analysis of long-snouted seahorses (*Hippocampus guttulatus*). This grant was funded by University of Turku and was supervised by Dr. Erica Leder and Dr. Charlotta Kvarnemo. Tasks included designing and building a breeding system set-up for *H. guttulatus*; feeding, maintaining *H. guttulatus* in captivity; collect skin tissue samples for DNA analysis; photo-identification.	UNIVERSITY OF TURKU CCMAR
25/03/2013 to 28/03/2013	Organizing committee of the 2nd Syngnathid Biology International Symposium held at University of Algarve, Faro, Portugal (http://syngbio.org/). The Symposium theme was "Multidisciplinary Approaches to Syngnathid Biology" and aimed to embrace several aspects of seahorse, pipefish and seadragon biology. Topics varied from physiology, phylogenetics, phylogeography, genomics, sexual selection and mating systems, behaviour, Syngnathid breeding programs and aquaculture, and conservation and management. This meeting gathered most of the field's researchers, straightening the bonds between all research groups.	CCMAR

01/06/2012 to 30/06/2012	Reviewer of "Woodall, L. 2012. *Hippocampus hippocampus*. The IUCN Red List of Threatened Species. Version 2015.2. <www.iucnredlist.org>." http://dx.doi.org/10.2305/IUCN.UK.2012.RLTS.T10069A17338787.en	
01/06/2012 to 30/06/2012	Reviewer of "Woodall, L. 2012. *Hippocampus guttulatus*. The IUCN Red List of Threatened Species. Version 2015.2. <www.iucnredlist.org>. http://dx.doi.org/10.2305/IUCN.UK.2012.RLTS.T41006A16997706.en	
01/01/2009 to 31/12/2012	PhD grant: "Trends in seahorse abundance in the Ria Formosa, South Portugal: recent scenario and future prospects" – Fundação para a Ciência e Tecnologia (FCT) – Grant reference: SFRH/ BD/41020/2007. Tasks included seahorse maintenance in captivity; scientific diving for seahorse (*Hippocampus guttulatus* and *Hippocampus hippocampus*) population and habitat monitoring; artificial holdfast design, production, deployment and monitoring; photo-identification indoor testing and applied to capture-recapture methodology; scientific writing in peer-reviewed journals and dissemination in international meetings.	
01/01/2009 to 31/12/2009	Researcher in Project entitled "Conserving seahorses in the wild and captivity: the influence of environment and movement". The overall objective was to assess the status and find potential threats to seahorse (*Hippocampus guttulatus* and *Hippocampus hippocampus*) populations in the Ria Formosa.	
01/10/2008 to 30/11/2008	Field technician grant – "Project Seahorse". This grant was funded by Project Seahorse (http://www.projectseahorse.org/). Tasks included support of Iain Caldwell's PhD workplan as skipper; scientific diver for underwater seahorse population monitoring; liaison and translator to local authorities and media; responsible for requesting all the necessary permits. All tasks were performed in the Ria Formosa lagoon.	
01/04/2007 to 28/02/2008	Research grant – Sea Horse Applied Research ("SHAR") "seahorse culture programme". Establishing a breeding and rearing protocol for *Hippocampus guttulatus*. Tasks included designing and building a breeding system set-up for *Hippocampus guttulatus*; feeding, breeding and maintaining *Hippocampus guttulatus* in captivity; testing different diets to improve juvenile seahorse survival; optimize and establish a protocol for breeding and maintaining seahorses in captivity and assess its commercial viability. All tasks were performed at Ramalhete Experimental Field Station.	

01/01/2004 to 31/07/2005	Research grant – "AQUASEPIA" - Development of aquaculture techniques for the cuttlefish, Sepia officinalis. Projetos I&D em Consórcio – ADI. Project reference: P0009/POCTI 2.3/OUT.01. Tasks included designing and building a breeding system set-up for *Sepia officinalis*; feeding, breeding and maintaining the complete life cycle of Sepia officinalis in captivity; testing the optimal culture density; production of *Palaemonetes varians* as food source for cuttlefish. All tasks were performed at Ramalhete Experimental Field Station.	CCMAR
04/04/2003 to 05/04/2003	Teaching assistant in "Oceanographic Chemistry" classes in the "Marine Biology and Fisheries" course. Tasks included preparing equipment and logistic support; teaching methodologies related to water sampling and analysis. All tasks were performed in the Ria Formosa lagoon.	UAlg UNIVERSIDADE DO ALGARVE
01/06/2003 to 30/06/2003	Scientific course in Aquaculture at Aquaculture Research and Development Facility (ARDF). Tasks included supporting the every-day routines such as culture system checking; tanks maintenance; rotifer and *Artemia* production; fish feeding (*Hippoglossus stenolepis*; *Gadus microcephalus*; *Anarhichas denticulatus*); sampling *Gadus microcephalus* broodstock (sperm collection).	MEMORIAL UNIVERSITY
01/05/2001 to 31/12/2001	Field technician – "HALOBATRACHUS" project (Cadmium and vanadium compounds interactions with sarcoplasmic reticulum calcium pump). Project reference: POCTI/QUI/38191/2001. Tasks included capture (SCUBA diving and traditional fishing method) and sampling of *Halobatrachus didactylus*. All tasks were performed in the Ria Formosa lagoon.	UAlg UNIVERSIDADE DO ALGARVE
30/11/2001 to 01/12/2001	Scientific technician – "SIRIA" (Situação de Referência na Região Costeira Algarvia Influenciável pela Barragem do Alqueva). Fundação das Universidades Portuguesas/ Ministério da Defesa. Project reference: OC2104/00410/C. Tasks included collection of water samples in several offshore sites along the south coast of Portugal; sample analysis (sediment, oxygen, etc.).	hidrográfica marinha·portuga UAlg UNIVERSIDADE DO ALGARVE

5. Area of scientific activity

Marine Biology; Marine Ecology; Aquaculture;

6. Domain of specialization

Domain of specializations

Aquaculture; Ecology

Present research interests

Aquaculture, ecology and behaviour of *Sepia officinalis*

Aquaculture, ecology, behaviour and conservation of seahorses

7. Supervising experience

Undergraduate Students: Sandra Ramos (UAlg - Nº45130), Gonçalo Lourenço (ERASMUS – Bangor University)

MSc Students: Neuza Fernandes (UAlg – Nº 51885), Beatrice Savinelli (ERASMUS – EMBC), Joana Teixeira (Universidade de Lisboa), Magda Frade (UAlg - Nº38966), Alyona Shulika (UAlg - Nº46213), Diana Novac (UAlg - Nº44277), Inga Silva (UAlg – Nº33872), Gonçalo Araújo (ERASMUS - EMBC), Jana Rajnohova (ERASMUS - EMBC).

8. Participation in research projects

2018-2020 – HIPPONUTRE (Breeding the long-snouted seahorse, *Hippocampus guttulatus*: zootechnical optimization and assessment of nutritional requirements). Programa Operacional MAR2020, Fundo Europeu dos Assuntos Marítimos e das Pescas (FEAMP) - Project reference: MAR-02.01.01-FEAMP-0054

2018-2019 – The unknown European seahorses: contribution to increasing the knowledge for the classification and conservation status of the Atlantic seahorse in Portugal. The Mohamed bin Zayed Species Conservation Fund - Project reference: 182519021 & Oceanário de Lisboa.

2012-2015 – HIPPOSAFE (From abundance to disappearance. Identifying causes for *Hippocampus guttulatus* population decrease in the Ria Formosa). Fundação para a Ciência e Tecnologia (FCT). Project reference: PTDC/MAR/122616/2010

2009 - Conserving seahorses in the wild and captivity: the influence of environment and movement. Oceanário de Lisboa - Financial support for projects of conservation and in-situ investigations.

2008 – "Project Seahorse" as scientific technician. Project Seahorse, UBC, Canada.

2007/2008 - SHAR (Sea Horse Applied Research) as assistant researcher. Lusoreef & CCMAR

2004/2005 - AQUASEPIA (Development of aquaculture techniques for the cuttlefish, *Sepia officinalis*). Projetos I&D em Consórcio – ADI. Project reference: P0009/POCTI 2.3/OUT.01.

2001/2002 - HALOBATRACHUS (Cadmium and vanadium compounds interactions with sarcoplasmic reticulum calcium pump). Project reference: POCTI/QUI/38191/2001

9. Prizes and awards

2014 – "Ideias em Caixa 2013 – Concurso de Ideias de Negócio" for SHRIMPPO
CRIA – Divisão de Empreendedorismo e Transferência de Tecnologia (UAlg).
(http://www.cria.pt/empreendedorismo/concursos-de-ideias/ideias-em-caixa-2013/)

2010 – “InAqua” Prize (Oceanário de Lisboa, National Geographic Channel and Throttleman). 1rst place. Title: “Cavalos-marinhos em risco na Ria Formosa?” (www.oceanario.pt/conservacao/inaqua/)

10. Publications

Thesis

2015 - PhD’s Thesis: "Trends in seahorse abundance in the Ria Formosa, South Portugal: recent scenario and future prospects"

2007 - MSc’s Thesis: “Feeding requirements of cultured juvenile cuttlefish, *Sepia officinalis* (Linnaeus, 1758)”

2003 - Degree’s Thesis: "Efeito da densidade de cultivo no crescimento e na reprodução de *Sepia officinalis* (Linnaeus, 1758)"

List of publications (peer reviewed)

Palma, J., Magalhães, M., **Correia, M.** & Andrade, J. P. (2019). Effects of anthropogenic noise as a source of acoustic stress in wild populations of *Hippocampus guttulatus* in the Ria Formosa, South Portugal. *Aquatic Conservation: Marine and Freshwater Ecosystems*. **29** (5), 751-759. http://dx.doi.org/10.1002/aqc.3056.

Correia, M., Campoy, A., Madeira, C. & Andrade, J. P. (2018). Is filament clipping an effective tool for tissue sampling in *Hippocampus guttulatus*? *Environmental Biology of Fishes* **101** (10), 1517–1523. http://dx.doi.org/10.1007/s10641-018-0796-1.

Correia, M., Koldewey, H., Andrade, J. P., Esteves, E. & Palma, J. (2018). Identifying key environmental variables of two seahorse species (*Hippocampus guttulatus* and *Hippocampus hippocampus*) in the Ria Formosa Lagoon, South Portugal. *Environmental Biology of Fishes* **101** (9), 1357-1367. http://dx.doi.org/10.1007/s10641-018-0782-7

Woodall, L. C., Otero-Ferrer, F., **Correia, M.**, Curtis, J. M. R., Garrick-Maidment, N., Shaw, P. W. & Koldewey, H. J. (2018). A synthesis of European seahorse taxonomy, population structure, and habitat use as a basis for assessment, monitoring and conservation. *Marine Biology* **165**, 1-19. http://dx.doi.org/10.1007/s00227-017-3274-y

Correia, M., Koldewey, H., Andrade, J. P. & Palma, J. (2016). A novel underwater visual census: seahorse population survey as a case study. *Regional Studies in Marine Science* **8** (3), 454-458. http://dx.doi.org/10.1016/j.rsma.2015.10.003

Correia, M., Palma, J. & Andrade J.P. (2016) Growth performance of the early life stages of broad-nosed pipefish, *Syngnathus typhle* (L.) fed different live or frozen diets. *Aquaculture Research* **47** (5), 1652-1660. http://dx.doi.org/10.1111/are.12635

Correia, M., Caldwell, I., Koldewey, H., Andrade, J. P. & Palma, J. (2015). Seahorse (Hippocampinae) population fluctuations in the Ria Formosa Lagoon, south Portugal. *Journal of Fish Biology* **87**, 679-690. http://dx.doi.org/10.1111/jfb.12748

Correia, M., Koldewey, H., Andrade, J. P. & Palma, J. (2015). Effects of artificial holdfast units on seahorse density in the Ria Formosa lagoon, Portugal. *Journal of Experimental Marine Biology and Ecology* **471**, 1-7. http://dx.doi.org/10.1016/j.jembe.2015.05.012

Correia, M., Palma, J., Koldewey, H. & Andrade, J. P. (2014). The use of a non-invasive tool for capture-recapture studies on a seahorse *Hippocampus guttulatus* population. *Journal of Fish Biology* **84**, 872-884. http://dx.doi.org/10.1111/Jfb.12304

Correia, M., Palma, J., Koldewey, H. & Andrade, J. P. (2013). Can artificial holdfast units work as a habitat restoration tool for long-snouted seahorse (*Hippocampus guttulatus* Cuvier)? *Journal of Experimental Marine Biology and Ecology* **448**, 258-264. http://dx.doi.org/10.1016/j.jembe.2013.08.001

Caldwell, I. R., **Correia, M.**, Palma, J. & Vincent, A. C. J. (2011). Advances in tagging syngnathids, with the effect of dummy tags on behaviour of *Hippocampus guttulatus*. *Journal of Fish Biology* **78**, 1769-1785. http://dx.doi.org/10.1111/j.1095-8649.2011.02983.x

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Palma, J., Bureau, D. P., **Correia, M.** & Andrade, J. P. (2009). Effects of temperature, density and early weaning on the survival and growth of Atlantic ditch shrimp *Palaemonetes varians* larvae. *Aquaculture Research* **40** (13), 1468-1473. http://dx.doi.org/10.1111/j.1365-2109.2009.02245.x

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Palma, J., Stockdale, J., **Correia, M.** & Andrade, J. P. (2008). Growth and survival of adult long snout seahorse (*Hippocampus guttulatus*) using frozen diets. *Aquaculture* **278**, 55-59. http://dx.doi.org/10.1016/j.aquaculture.2008.03.019

Correia, M., Palma, J. & Andrade, J. P. (2008) Effects of live prey availability on growth and survival in early stages of cuttlefish *Sepia officinalis* (Linnaeus, 1758) life cycle. *Aquaculture Research* **39**, 33-40. http://dx.doi.org/10.1111/j.1365-2109.2007.01858.x

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Correia, M., Palma, J., Kirakowski, T. & Andrade, J. P. (2008) Effects of prey nutritional quality on the growth and survival of juvenile cuttlefish, *Sepia officinalis* (Linnaeus, 1758). *Aquaculture Research* **39**, 869-876. http://dx.doi.org/10.1111/j.1365-2109.2008.01940.x

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Palma, J., **Correia, M.** & Andrade, J. P. (2008). Usefulness of flat bottom tanks on the settlement of spider crab (*Maja squinado*, Herbst) larvae. *Aquaculture Research* **39**, 1005-1008. http://dx.doi.org/10.1111/j.1365-2109.2008.01943.x

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Sykes, A. V., Domingues, P. M., **Correia, M.** & Andrade, J. P. (2006) Cuttlefish Culture – state of the art and future trends. *Vie et Milieu – Life & Environment* **56** (2), 129-137.

Correia, M., Domingues, P., Sykes, A. & Andrade, J. P. (2005) Effects of culture density on growth and broodstock management of the cuttlefish, *Sepia officinalis* (Linnaeus, 1758). *Aquaculture* **245** (1-4), 163- 173. http://dx.doi.org/10.1016/j.aquaculture.2004.12.017

List of publications (other)

Andrade, J. P., Madeira, C., **Correia, M.** & Palma, J. (2016) Assigning *Hippocampus guttulatus* recruits to the populations of origin using microsatellites: results from a field study in the Ria Formosa (south Portugal). *PeerJ Preprints* 4:e1794v1. https://dx.doi.org/10.7287/peerj.preprints.1794v1

Correia, M. & Palma J. (2015) Cavalo-marinho europeu: já dá para criar em aquário. *Cães & Cia*, **431**: 30-33.

Correia, M. (2015) Cultivo de cavalos-marinhos em aquário. *PetCenter*, *Groom Brasil*, **173**: 40-41.

Sykes, A. V., Domingues, P. M., Gonçalves, R., **Correia, M.** & Andrade, J. P. (2011). On the aquaculture potential of cephalopod species: the European cuttlefish as a showcase. *Journal of Shellfish Research* **30** (3), 1021-1021. http://dx.doi.org/10.2983/035.030.0342

Oral presentations in conferences

Correia, M., Andrade, J. P. & Palma, J. "Feeding strategy of two Syngnathid species, *Hippocampus guttulatus* and *Syngnathus typhle*". *VII Iberian Congress of Ichthyiology* (SIBIC2018), Faro, Portugal, 12-15 June 2018. (https://www.sibic2018.org)

Correia, M., Campoy, A., Madeira, C. & Andrade, J. P. "Is filament clipping an effective tool for tissue sampling in *Hippocampus guttulatus*?". *VII Iberian Congress of Ichthyiology* (SIBIC2018), Faro, Portugal, 12-15 June 2018. (https://www.sibic2018.org)

Palma, J., **Correia, M.**, Andrade, J. P. "Project HIPPONUTRE – Breeding long snout seahorse, *Hippocampus guttulatus*: Zootechnical optimization and nutritional requirements evaluation". *VII Iberian Congress of Ichthyiology* (SIBIC2018), Faro, Portugal, 12-15 June 2018. (https://www.sibic2018.org)

Correia, M., Campoy, A. & Andrade, J. P. "Is filament clipping an effective tool for tissue sampling in *Hippocampus guttulatus* Cuvier?". *Third Syngnathid Biology International Symposium* (SYNGBIO 2017), Tampa, USA, 14-19 May 2017. (http://syngbio.squarespace.com)

Correia, M., Koldewey, H., Andrade, J. P. & Palma, J. "Spatial and temporal variation in the abundance of two sympatric seahorse species (*Hippocampus guttulatus* and *Hippocampus hippocampus*)". *Third Syngnathid Biology International Symposium* (SYNGBIO 2017), Tampa, USA, 14-19 May 2017. (http://syngbio.squarespace.com)

Palma, J., **Correia, M.** & Andrade, J. P. "Climate induced temperature effects on growth performance and fecundity of *Hippocampus guttulatus*". *Third Syngnathid Biology International Symposium* (SYNGBIO 2017), Tampa, USA, 14-19 May 2017. (http://syngbio.squarespace.com)

Palma, J., Magalhães, M., **Correia, M.** & Andrade, J. P. "The effect of anthropogenic noise as a source of acoustic stress in wild populations of *Hippocampus guttulatus* in the Ria Formosa lagoon, South Portugal". *Third Syngnathid Biology International Symposium* (SYNGBIO 2017), Tampa, USA, 14-19 May 2017. (http://syngbio.squarespace.com)

Correia, M., Caldwell, I., Koldewey, H., Andrade, J. P. & Palma, J. "Seahorse population fluctuations in the Ria Formosa Lagoon, South Portugal". *Mares Conference on Marine Ecosystems Health and Conservation 2016* (MARES 2016), Olhão, Portugal, 1-5 February 2016. (http://www.maresconference.eu)

Correia, M., Andrade, J. P. & Palma, J. "Artificial Holdfast Units: Accessing their usefulness for the recovery and conservation of seahorse populations in the Ria Formosa lagoon, south Portugal". *Mares Conference on Marine Ecosystems Health and Conservation 2016* (MARES 2016), Olhão, Portugal, 1-5 February 2016. (http://www.maresconference.eu)

Palma, J., **Correia, M.** & Andrade, J. P. "Artificial Holdfast Units: Accessing their usefulness for the recovery and conservation of seahorse populations in the Ria Formosa lagoon, south Portugal". *International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems 2015* (BECoME 2015), The University of Hong Kong, China, 1-4 June 2015. (http://www.biosch.hku.hk/become)

Andrade, J. P., Madeira, C., **Correia, M.**, & Palma, J. "Assigning *Hippocampus guttulatus* recruits to the populations of origin using microsatellites: Results from a field study in the Ria Formosa (south Portugal)". *International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems 2015* (BECoME 2015), The University of Hong Kong, China, 1-4 June 2015. (http://www.biosch.hku.hk/become)

Correia, M., Palma, J., Koldewey, H. & Andrade, J. P. The use of a non-invasive tool for capture- recapture studies on a seahorse (*Hippocampus guttulatus*) population. *Second Syngnathid Biology International Symposium* Faro, Portugal, 25-28 March 2013. (http://syngbio.org)

Andrade, J. P., Madeira, C., Novac, D., Gomes, J., **Correia, M.**, Birch, S. & Palma, J. Tracking *Hippocampus guttulatus* recruits within artificial holdfast units in the Ria Formosa using microsatellites. *Second Syngnathid Biology International Symposium* Faro, Portugal, 25-28 March 2013. (http://syngbio.org)

Correia, M., Palma, J., Koldewey, H. & Andrade, J. P. Can artificial holdfast units work as a habitat restoration tool for long-snouted seahorse (*Hippocampus guttulatus* Cuvier)? *Second Syngnathid Biology International Symposium* Faro, Portugal, 25-28 March 2013. (http://syngbio.org)

Correia, M., Palma, J., Koldewey, H. & Andrade, J.P. Use of artificial holdfast units as habitat enrichment for seahorses (*Hippocampus guttulatus*) in the Ria Formosa lagoon, South Portugal. *Fifth International Public Aquarium Husbandry Series - Husbandry, Management and Conservation of Syngnathids Symposium*, Chicago, USA, 1-7 November 2011. (http://www.sheddaquarium.org/3625.html)

Correia, M.; Koldewey, H. & Andrade, J. P. Human influences on seahorse populations in the Ria Formosa lagoon, South Portugal. *First Syngnathid Biology International Symposium*, Fiskebäckskil, Sweden, 25-29 April 2011. (http://www.syngbio.org/syngbio2011)

Palma, J.; Fialho, A.; **Correia, M.** & Andrade, J. P. Courtship behaviour and sex ratio effect on the reproductive behaviour of the long snout seahorse, *Hippocampus guttulatus*. *First Syngnathid Biology International Symposium*, Fiskebäckskil, Sweden, 25-29 April 2011. (http://www.syngbio.org/syngbio2011)

Palma, J., Stockdale, J., **Correia, M.** & Andrade, J. P. Size of prey ingested by Syngnathids: Are these fish gape-limited predators? *First Syngnathid Biology International Symposium*, Fiskebäckskil, Sweden, 25-29 April 2011. (http://www.syngbio.org/syngbio2011)

Invited Speaker

Salon de la Plongée Sous-marine : *Quel avenir pour les hippocampes*? Paris, France, 12 January 2019. (http://www.salon-de-la-plongee.com/fr/animations/fiche-animations/1250/2178.html)

Faro 1540: *Conversas à hora certa*, Café Aliança, Faro, Portugal, 06 December 2018. (https://regiao-sul.pt/2018/12/06/ambiente/faro-1540-promove-hoje-debate-sobre-ria-formosa-e-especies-em-vias-de-extincao/452894).

Sciaena & ANP|WWF: *Fórum Cavalos-marinhos da Ria Formosa* – Mercado Municipal de Olhão, Portugal, 17 September 2018. (http://www.sciaena.org/135-forum-cavalos-marinhos-da-ria-formosa-em-olhao)

Posters in conferences

Andrade, J. P., Madeira, C., **Correia, M.** & Palma, J. Assigning *Hippocampus guttulatus* recruits to the populations of origin using microsatellites: Results from a field study in the Ria Formosa (south Portugal). *Mares Conference on Marine Ecosystems Health and Conservation 2016* (MARES 2016), Olhão, Portugal, 1-5 February 2016. (http://www.maresconference.eu)

Correia, M., Koldewey, H., Andrade, J. P. & Palma, J. Assessing seahorse abundance: A comparison between two underwater visual census techniques. *International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems 2015* (BECoME 2015), The University of Hong Kong, China, 1-4 June 2015. (http://www.biosch.hku.hk/become)

Correia, M., Caldwell, I.R., Koldewey, H., Andrade, J. P. & Palma, J. Seahorse population fluctuations in the Ria Formosa Lagoon, South Portugal. *International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems 2015* (BECoME 2015), The University of Hong Kong, China, 1-4 June 2015. (http://www.biosch.hku.hk/become)

Palma, J., **Correia, M.**, Bureau, D. P. & Andrade, J. P. Developments in seahorse culture: the long snout seahorse case study, Seminar "We are water", Guelph, Canada, 2013

Correia, M., Koldewey, H. & Andrade, J. P. Human influences on seahorse populations in the Ria Formosa lagoon, South Portugal. *2nd International Marine Conservation Congress* (IMCC2), Victoria, British Columbia, Canada, 14-18 May 2011. (http://conbio.org/mini-sites/imcc2011)

Correia, M., Palma, J. & Andrade, J. P. Growth performance of the early stages of broad-nosed pipefish, *Syngnathus typhle* (L.) fed different natural diets. *XIII International Symposium on Fish Nutrition & Feeding*, Florianópolis, Brasil, 1-5 June 2008. (http://en.aquaculture.ifremer.fr/News/Archives-2008/Meetings/XIII-International-Symposium-on-Fish-Nutrition-and-Feeding)

Palma, J., Stockdale, J., **Correia, M.** & Andrade, J. P. Growth and survival of adult long snout seahorse (*Hippocampus guttulatus*) using frozen diets. *XIII International Symposium on Fish Nutrition & Feeding*, Florianópolis, Brasil, 1-5 June 2008. (http://en.aquaculture.ifremer.fr/News/Archives-2008/Meetings/XIII-International-Symposium-on-Fish-Nutrition-and-Feeding)

Palma, J., Bureau, D. P., **Correia, M.** & Andrade, J. P. Quantitative dietary requirement of juvenile grass shrimp *Palaemonetes varians* (Leach) for Lysine, Methionine and Arginine. *XII International Symposium on Fish Nutrition & Feeding*, Biarritz, France, 28 May – 1 June 2006. (http://www.st-pee.inra.fr/btz06/)

Correia, M., Domingues, P., Sykes, A. & Andrade, J. P. Effects of culture density on growth and broodstock management of the cuttlefish, *Sepia officinalis* (Linnaeus, 1758). *Aquaculture Europe 2004: "Biotechnologies for Quality"*, European Aquaculture Society, Barcelona, Spain, 20 -23 October 2004.

11. Referee assignment

African Journal of Marine Science (ISSN: 1814-232X) – **(1)**
Aquaculture (ISSN: 0044-8486) – **(8)**
Aquaculture International (ISSN: 0967-6120) – **(5)**
Aquaculture Research (ISSN: 1365-2109) – **(1)**
Aquatic Conservation: Marine and Freshwater Ecosystems (ISSN: 1099-0755) – **(1)**
Chinese Journal of Oceanology and Limnology (ISSN: 0254-4059) – **(1)**
Environmental Biology of Fishes (ISSN: 1573-5133) – **(1)**
Estuarine Coastal and Shelf Science (ISSN: 0272-7714) – **(1)**
Hydrobiologia (ISSN: 0018-8158) – **(1)**
ICES Journal of Marine Science (ISSN: 1054-3139) - **(1)**
Journal of Experimental Biology and Ecology (ISSN: 0022-0981) – **(1)**
Journal of Fish Biology (ISSN: 1095-8649) – **(1)**

Marine Biodiversity Records (ISSN: 1755-2672) – **(1)**
Marine Ecology Progress Series (ISSN 0171-8630) – **(1)**
National Geographic (Grant) – **(1)**

Publons profile: https://publons.com/a/1271377/

12. Additional training

"R for absolute beginners" - CCMAR, Universidade do Algarve, 2015
Laboratory Animal Sciences – Aquatic Organisms Practical Approach by Aquatic Organisms Bioterium (BOGA – CIIMAR) – CCMAR, Portugal, 2015
Ciências de Animais de Laboratório – Online course by Sociedade Portuguesa de Ciências em Animais de Laboratório – CCMAR, Portugal, 2012
Curso Prático de Construção, Gestão e Monitorização de Charcos Para a Vida Selvagem – RIAS / ICNB, Portugal, 2011
Guia de Observação de Aves – Course by In Loco, S. Brás de Alportel, Portugal, 2008

13. Other skills

Certificate (under European law) to perform procedures on animals (article 31º through Decree-Law nº 113/2013 of August 7) – Universidade do Algarve (2015)
Gas Blender CMAS (#000259) – Universidade do Algarve (2013)
Bird Banding Credential #149 – Ministério da Agricultura do Mar, do Ambiente e do Ordenamento do Território (2013)
Boat Skipper (#146965) – O Nauta, Olhão (2008)
Nitrox Diver (#207271) – Hidroespaço, Faro (2006)
Scuba Diver CMAS - P1- (POR/F00/P1/2000 000844) - Alfa Sub, Olhão (2000)
Driver's license Cat. B (L-1576820-2) - Algés (1996)

14. Media outreach

Television

2019/11/23 - Auditório de Olhão - Short film "Cavalos de Guerra" by Chimera Visuals (https://www.youtube.com/watch?v=eU1LTocs-JU)
2019/11/23 - RTP1: Episode of "Mar: a última fronteira" by Atlantic Ridge Productions (https://www.rtp.pt/play/p6437/mar-a-ultima-fronteira)
2019/11/12 - RTP1: Portugal em Direto (https://www.rtp.pt/play/p5286/e438479/portugal-em-direto/782680)
2019/10/19 - SIC: Primeiro Jornal (https://www.youtube.com/watch?v=wcxeNS65VDY)
2019/10/10 - RTP1: Episode #29 Linha da Frente "O despertar da Ilha" (https://www.rtp.pt/play/p5280/e432362/linha-da-frente)
2019/10/01 - 4Ocean: Project Seahorse is Protecting Critical Habitats (https://www.youtube.com/watch?v=PS_pBGdqasc&t=14s)
2019/06/04 - RTP1: Portugal em Direto (https://www.rtp.pt/play/p5286/e410951/portugal-em-direto/748893)
2019/02/09 - ABC: Season 3 Episode 12 "Ocean Treks with Jeff Corwin" (USA)

(https://vimeo.com/316759387)
2018/10/31 - TVI: Jornal da Uma (https://vimeo.com/298390819)
2018/01/08 - RTP1: Telejornal (https://vimeo.com/250196066)
2018/01/02 - CMTV: Jornal do Almoço (https://vimeo.com/249443788)
2017/09/21 - RTP1: Portugal em Direto (https://vimeo.com/234897898)
2017/09/20 - RTP1: Bom dia Portugal (https://vimeo.com/234669412)
2017/04/30 - SIC: Primeiro Jornal (https://vimeo.com/215407644)
2016/12/03 - SIC: SOS Animal - Season 2 Episode 11 (https://vimeo.com/194592127)
2015/06/23 - TVI24: Visita de António Costa ao Ramalhete (https://vimeo.com/131541164)
2014/07/23 - RTP1: Bom Dia Portugal (https://vimeo.com/101538960)
2013/12/17 - RTP2: Biosfera - BI da espécie (https://vimeo.com/82157606)
2013/10/13 - RTP2: Biosfera (https://vimeo.com/77260881)
2013/08/18 - Lusa TV: Reportagem (https://vimeo.com/72582388)
2013/05/24 - Localvisão TV: Reportagem "Investigação em Aquacultura"
2013/05/18 - TVI: Reportagem (https://vimeo.com/70422877)
2013/05/25 - SIC: Reportagem (https://vimeo.com/70422611)
2013/01/14 - MareTV: Reportagem "An Der Algarve" (https://vimeo.com/57403989)
2011/12/27 - Arte: "L'Algarve, côte enchanteresse" (https://vimeo.com/34260526)
2010/12/27 - RTP1: Bom Dia Portugal (https://vimeo.com/18283575)
2010/11/27 - SIC: Primeiro Jornal (https://vimeo.com/17238729)

Radio

2019/11/22 - RTP notícias: Interview (https://www.rtp.pt/noticias/cultura/cavalos-de-guerra-alerta-para-o-declinio-de-cavalos-marinhos-na-ria-formosa_a1187429)

2018/11/03 - Antena 1: Interview in "Os dias do Futuro" (https://www.rtp.pt/play/p383/e373087/os-dias-do-futuro)
2018/01/11 - TSF: Interview (https://www.tsf.pt/sociedade/ambiente/interior/ria-formosa-ainda-e-maior-a-maternidade-de-cavalos-marinhos-do-mundo-9039395.html)
2013/05/07 - Antena 1: Interview (http://youtu.be/zx7axmW1JA4)
2013/03/27 - TSF: Interview (http://youtu.be/Gf-aVg0aSUU)

Magazine/Newspaper/Online

In production - Chimera visuals by João Rodrigues: Photographic book "Cavalos de Guerra"

In production - National Geographic Magazine: "Seahorses"

2019/10/29 - Jornal Público: News story (https://www.publico.pt/2019/10/29/ciencia/noticia/escolas-mergulho-vao-procurar-cavalosmarinhos-desconhecidos-1891677)

2019/10/27 - Expresso: News story (https://expresso.pt/sociedade/2019-10-27-Cavalos-marinhos-vao-ter-dois-refugios-na-Ria-Formosa)

2018/11/11 - Jornal de Notícias: News story (https://www.jn.pt/local/noticias/faro/faro/interior/santuario-para-proteger-cavalos-marinhos-da-ria-formosa-10162015.html)
2018/11/05 - Jornal Público: News story (https://www.publico.pt/2018/11/05/ciencia/noticia/amanda-vincent-portugal-nao-dar-atencao-devida-populacao-cavalosmarinhos-ria-formosa-1849658)
2018/11/06 - Jornal Económico: News story (https://jornaleconomico.sapo.pt/noticias/cds-pp-quer-salvar-os-

cavalos-marinhos-em-portugal-374625)

2018/11/01 - Expresso: News story (https://expresso.sapo.pt/sociedade/2018-11-01-Aqui-so-resta-um-cavalo-marinho#gs.jJ7v1Cg)

2018/11/02 - RTP online: News story (https://www.rtp.pt/noticias/pais/mercado-asiatico-ameaca-cavalos-marinhos-da-ria-formosa_n1109019)

2018/10/24 - Lusa: News story (https://www.dn.pt/lusa/interior/cidadaos-tem-de-exigir-aos-governantes-protecao-do-patrimonio-natural---investigadores-10077317.html)

2018/06/04 - Sulinformação: “Cavalos de Guerra”:(https://www.sulinformacao.pt/2018/06/cavalos-de-guerra-um-filme-um-livro-para-ajudar-os-cavalos-marinhos-da-ria-formosa/)

2017/12/01 - Enjoy the Algarve: (http://magazine.enjoythealgarve.com/why-the-algarve#!/typical-portugal)

2017/12/01 - National Geographic Portugal (https://nationalgeographic.sapo.pt/natureza/actualidade/1684-cavalos-marinhos-na-ria-formosa)

2013/05/01 - Público: Notícia “Cavalos-marinhos da ria Formosa já tiveram trinetos em cativeiro” (https://www.publico.pt/2013/05/01/jornal/cavalosmarinhos-da-ria-formosa-ja-tiveram-trinetos-em-cativeiro-26464920)

2011/03/01 - National Geographic Portugal: (https://nationalgeographic.sapo.pt/natureza/grandes-reportagens/1235-a-maior-comunidade-de-cavalos-marinhos-do-mundo-vive-na-ria-formosa)