

CURRICULUM VITAE

DR. MERCEDES WANGÜEMERT

Director & Administrator & Founder
Wangüemert Fisheries Management & Aquaculture S.L.U.
WANGUMAQUA SLU



PERSONAL DATA

SURNAME: Wangüemert

NAME: Mercedes

BIRTH DATE: 25/08/1972

SEX: Woman

POSITION: Administrator & Director & Founder

Wangüemert Fisheries Management and Aquaculture S.L.U

WANGUMAQUA SLU

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Researchgate: www.researchgate.net/profile/Mercedes_Gonzalez-Wangueemert



ACADEMIC BACKGROUND

2004 Ph. D. University of Murcia, Biological Sciences. Advisors: Dr. Pérez Ruzafa and Dr. García Charton. Dissertation Title: "Scales of variability on the genetic structure of SW Mediterranean populations of *Diplodus sargus*. Genetic effects of fishery protection in marine reserves." *Magna Cum Laudem*.

1997 M.S. University of Murcia, Biological Sciences. Advisors: Dr. Pérez Ruzafa and Dr. Ortiz Cervantes. Dissertation Title: "Morphologic and PGI locus variability of *Cardium glaucum* at Mar Menor coastal lagoon (SE Spain) and its relationship to environmental conditions." *Magna Cum Laudem*.

1996 Master of Environmental Impact Assessment. Institute of Ecological Research. UICN. Málaga, Spain.

1995 B.S. University of Murcia, Zoology. Second Cycle. Spain.

1993 B.S. University of Alicante, Environmental Sciences. First Cycle. Spain.

WORK EXPERIENCE

December 2021- nowadays

Administrator, Founder and Director, **WANGUMAQUA SLU**
(www.wangumaqua.com)

November 2020-nowadays

Administrator, Founder and Director, **Wangüemert Fisheries Management and Aquaculture S.L.U** (WANGUMAR,
(www.wangumar.com)

April 2019-October 2020

Aquaculture Development and Research Director in **Guatizamar S.L.**
(sea cucumber aquaculture company in Spain)

- 2015- 2019** Principal Investigator MARESMA team (MARine RESources MAnagement), IFCT Program-FCT (Senior Researcher)
CCMAR, Universidade do Algarve, Portugal
- 2010- 2015** **CCMAR, Universidade do Algarve.** Post-Doctoral Researcher FCT.
- 2008-2009** **University of Murcia** (Spain), Marine Ecology Department. Post-Doctoral Researcher (24 months).
- 2007** **University of Girona,** Sciences Department (Spain). Lecturer (6 months).
- 2005-2007** **University of Oporto,** CIBIO (Centro de Investigação em Biodiversidade e Recursos Genéticos)(Portugal). MEC Post-Doctoral Researcher (22 months).
- 2004-2005** **University of Murcia,** Department of Ecology (Spain). Post-Doctoral Researcher (6 months).
- 1999-2004** **University of Murcia,** Department of Ecology (Spain). Pre-Doctoral Researcher.
- 2000-2002** **University of Murcia,** Department of Ecology (Spain). Ph. D. Student.
- 1997-1999** **University of Murcia,** Department of Ecology (Spain). Research fellow.
- 1993-1995** **University of Murcia,** Department of Ecology (Spain). Pre-graduate collaborator student.

RESEARCH & JOB INTERESTS

My professional activity is focused on the following lines:

1. Sea cucumber fisheries and aquaculture (monoculture and IMTA).
2. Cryptic biodiversity in the genera *Holothuria* (Mediterranean Sea and Atlantic Ocean).
3. Sea cucumber taxonomy.
4. Application of genetics on the management of marine protected areas and fisheries. Effects of fishing protection on the genetic structure of target species. Connectivity of Marine Protected Areas.
5. Genetic adaptation and responses to environmental stress.
6. Restocking assessment in marine ecosystems.

PROJECTS

Dr. Wangüemert has collaborated on 47 national and international projects: as Principal Investigator on 7 international Projects and 4 national projects and on 3 international projects as Portuguese coordinator. She has **also collaborated with several national and international companies including Sayanes Mar SL, Guatizamar S.L., Taxón Estudios Ambientales SL, Marine Atlantic SA, 13th Door Sociedade Unipessoal Lda, Tunagrasso SA, Viver Atun SA, Yaizatun SA, Blue & Green Piscifactorías del Sureste SL, Piscifactorias Albadalejo, SL, Aquamar S.A., Atlantik Fish Lda, etc,** allowing and favouring the I+D transference from University and Research Centres to private companies.

On going

October 2021-March 2022. SEACUCAN. *Assessment of sea cucumber aquaculture' potential in Canary Islands (Spain)*. Project leader: Dr. Mercedes González-Wangüemert. Fisheries Department from Canary Islands, Ministry of Agriculture, Ranching, Fisheries and Water (Spain).

July 2021- January 2022. AQUACUMBER. *Potential to develop sea cucumber aquaculture in Liberia*. FAO Liberia.

July-September 2021. *Consultancy on commercial sea cucumber species from Liberian fisheries, processing methodology and potential to develop sea cucumber aquaculture*. FAO Liberia.

May-June 2021. *Consultancy on development of sea cucumber aquaculture in Turkey. Project Blue-Hope*, FAO Mediterranean area. FAO Turkey.

2020-2021 2nd Edition of *Guide of Commercial Sea cucumbers of the World (FAO)*. MGW' role: coordinator/responsible for the **Mediterranean and NE Atlantic species.** FAO & European Bureau for Conservation and Development (EBCD).

Nov 2020-Dec 2021 *Identification of sea cucumber commercial species inhabiting the Murcia coasts (SE Spain) and first assessment of their stocks*. MGW' role: project leader. FARM (Asociación de Empresas de Acuicultura de la Región de Murcia), GALPEMUR (Grupo de Acción Local de Pesca y Acuicultura de la Región de Murcia), Región de Murcia, Ministerio de Agricultura, Pesca y Alimentación

International

- 2019-2020** CDTI (Centro para el Desarrollo Tecnológico Industrial, Spanish Government), European Union Funds. **PIAPM: Sea cucumber aquaculture in Cádiz. Project leader: Dr. Mercedes Gonzalez-Wangüemert.** Project developed on Guatizamar S.L. company.
- 2016-2019** PTDC/MAR-BIO/5948/2014, **Sea CUcumber as new MARine reSoURce: potential for aquaculture (CUMARSUR).** Project leader: **Dr. Mercedes Gonzalez-Wangüemert.** CCMAR (Portugal), Université de La Réunion (France), Southern Cross University (Australia) and Institute of Oceanology, Chinese Academy of Sciences (China). FCT, Portuguese Government.
- 2015-2019** **HOLREMAR I and HOLREMAR II. *Holothuria arguinensis* as new marine resource in Europe: potential for aquaculture.** Project leader: **Dr. Mercedes Gonzalez-Wangüemert.** Sayanes Mar S.L & CCMAR.
- 2015-2017** COL12IP036. **Genetic and physiological variability of sea cucumber (*Isostichopus fuscus*, Ludwig 1875) in the Pacific (Panamá).** GENPHYSOS. SENACYT, (Secretaría Nacional de Ciencia, Tecnología e Innovación), Panamá. Project leader: Dr. Carlos Vergara-Chen. CCMAR (Portugal), INDICASAT (Panamá), INVEMAR (Colombia). **MGW`s role: Portuguese coordinator.**
- 2015-2017** Ministerio de Economía y Competitividad. **Coastal species with low dispersal ability: connectivity, genetic structure and conservation (CONCoast).** Project leader: Dr. Annie Machordom. MNCN (Spain), Universidad de Roma (Italy), Centro de Ciências do Mar (CCMAR) and Istituto di Scienze Marine (ISMAR, Italy). **MGW's role: member of team.**
- 2014-2017** Edital Universal, MCTI/CNPq 14/2013. **Efetividade da área de exclusão de pesca da Reserva Extrativista do Corumbau na**

exportação de larvas de *Scarus trispinosus* e conectividade entre populações. Project leader: Dr. Fabiana Hackradt. Universidade Federal da Paraíba (Brasil), Universidade Federal de Pernambuco (Brasil), Centro do Ciências do Mar, Universidade do Algarve (Portugal). **MGW's role: Portuguese coordinator.**

2014-2017 SENACYT (Secretaría Nacional de Ciencia, tecnología e Innovación), ITE12-007. ***Identification of genetic adaptive variation in wild populations of sea bass, *Centropomus armatus* (Gill, 1863).*** ADAPVAR. Project leader: Dr. Carlos Vergara-Chen. INDICASAT-AIP (Panamá), University of Georgia (EEUU) and Centro do Ciências do Mar (Universidade do Algarve, Portugal). **MGW`s role: Portuguese coordinator.**

2016-2017 ***Okalunga Project: Assessment of potential areas for sea cucumber aquaculture in Angola.*** Project leader: **Dr. Mercedes Gonzalez-Wangüemert.** The 13th Door Sociedade Unipessoal LDA and Marine Atlantic S.L.

2015 ***Pilot study of *Holothuria polii* culture in La Encañizada de la Torre (Mar Menor, Murcia, Spain).*** Project leader: **Dr. Mercedes Gonzalez-Wangüemert.** Piscifactorías Albadalejo S.A & CCMAR.

2012-2015 FCT, PTDC/MAR/119363/2010. ***Sea cucumbers: the new resource for a hungry fishery (CUMFISH).*** Project leader: **Dr. Mercedes Gonzalez-Wangüemert.** CCMAR (Portugal), CSIC (Spain), IEO (Spain), INVEMAR (Colombia), Université de La Réunion (France), Australia Institute of Marine Science (Australia) and Ordu University (Turkey).

2010-2014 SENECA Foundation. Murcia Government. ***Molecular ecology and climate change: adaptive differentiation of *Cymodocea nodosa* and *Caulerpa prolifera* populations through environmental clines.*** Project leader: **Dr. Mercedes González-Wangüemert.** University of Murcia (Spain) and Centro do Ciências do Mar (Universidade do Algarve, Portugal).

- 2009-2011** BBVA Foundation. *Assessment of population dynamic and mobility to grouper management: Comparison among fishery and biological marine reserves.* Project leader: Dr. García-Charton. University of Murcia (Spain), Universidade Federal de Santa Catarina (Brasil). **MGW`s role: member of team.**
- 2009-2011** Ministerio de Ciencia e Innovación (MCI, Spain). **GENCONNECT: Genetic structure and connectivity in marine species and parameters (biotic and abiotic) determining their evolution.** Project leader: Dr. Annie Machordom. MNCN (Spain), Universidad de Roma (Italy), National Institute of Water and Atmospheric Research (NIWA, New Zealand), Universidad de Murcia (Spain), Istituto di Scienze Marine (ISMAR, Italy). **MGW`s role: member of team.**
- 2008-2009** Laboratorio di Ecologia Marina, National Research Council (CNR, Italy). **Genetic variability of cultivated and wild populations of white sea bream (*Diplodus sargus*) in Sicilia.** Project leader: Dr. Pérez-Ruzafa and Dr. Giovanni D'Anna. **MGW`s role: member of team.**
- 2006-2008** European Commission; INTERREG Program. **AMPAMED: Le rôle des Aires Marine Protégées dans la gestion durable d'Activités économiques, telles que la pêche artisanale et le tourisme, en harmonie avec l'identité culturelle des régions de Méditerranée Occidentale".** Project leader: Dr. Maddy Cancemi. Office de l'Environnement de la Corse (France), Istituto per l'Ambiente MarinoCostiero del CNR (Italy), Fondazione IMC - International Marine Centre (Italy), Are marina Protesta Penisola del Sinis – Isola de Mal di Ventre – Comune di Cabras (Italy) & Universidad de Murcia (Spain). **MGW's role: member of team.**
- 2006-2007** AECI. **Ecology, biology, genetics and parasitology of Tunisian and Spanish Sparid populations.** Project leader: Dr. Ángel Pérez Ruzafa and Dr. Ben Hassine. **MGW's role: member of team.**
- 2005-2007** European Commission (VI Marco Program). **EMPAFISH: European Marine Protected Areas as tools for fisheries management and**

conservation. Project leader: Dr. Ángel Pérez Ruzafa and Dr. Jose Antonio García Charton. **MGW's role: member of team.**

1997-1999 UNIVALI, Parana Marine Center and Parana State University. **Biology, genetic variability and management of *Pecten ziczac* in Brazil.** Project leader: Dr. Borzone and Dr. Pezzuto. **MGW's role: member of team.**

National

2008-2009 Regional Ministry of Universities, Company and Research, Comunidad Autónoma de Murcia (Spain). **PEPLAN: Coastal monitoring system in Mar Menor.** Project leader: Angel Pérez Ruzafa. University of Murcia and University of Cartagena. **MGW's role: member of team.**

2006-2008 SENECA Foundation. Gobierno Regional de Murcia. **Role of coastal lagoons about marine genetic diversity.** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

2004-2007 EUTROCOST. Ministry of Science and Technology. **Response of trophic network of coastal lagoon to agricultural nutrient inputs.** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

2004-2005 Oceanography Spanish Institute (IEO). **Comparison of genetic structure of *Pomatochistus* between coastal lagoon and marine populations.** Project leader: Dr. Elena Barcala Bellod, Dr. Mercedes González-Wangüemert, Dr. Julio Mas.

2003-2005 SENECA Foundation. Murcia Government. **Importance of genetic flows and marine reserves in the biodiversity management.** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

2003-2005 Research Group: Ecology and Management of Marine Coastal Ecosystems, University of Murcia. **Genetic differentiation of *Elysia timida* (Risso, 1818) populations in Southwest Mediterranean**

and Mar Menor coastal lagoon (Spain). Project leader: Dr. Ángel Pérez Ruzafa, **Dr. Mercedes González-Wangüemert** and Dr. Francisca Giménez-Casalduero.

- 2004** Regional Ministry of Agriculture, Environment and Water. ***Follow-up of marine reserve Cape of Palos-Hormigas Islands (Spain).*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**
- 2000-2003** SENECA Foundation. Murcia Government. ***Scales of spatio-temporal variability of protection marine areas effects: range of propagules and adult fishes dispersion and cascade effect.*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**
- 2003** Research Groups: Ecology and Management of Marine Coastal Ecosystems and Zoology Group, University of Murcia. ***Genetic differentiation of *Atherina boyeri* populations in Mediterranean Sea and Mar Menor coastal lagoon (Spain).*** Project leader: Dr. Mar Torralva, **Dr. Mercedes González-Wangüemert** and Dr. Ángel Pérez Ruzafa.
- 2003** Regional Ministry of Agriculture, Environment and Water. ***Follow-up of littoral water condition and pollution by agriculture nitrate in Mar Menor coastal lagoon (Spain).*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**
- 2002** Regional Ministry of Agriculture, Environment and Water. ***Control of littoral water quality of Mar Menor (Murcia, Spain).*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**
- 2002** Regional Ministry of Agriculture, Environment and Water. ***Follow-up of marine reserve Cape of Palos-Hormigas Islands (Spain).*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

- 2001** *Environment monitoring of YAIZATUN S.A activities: fattening and greasing of tuna. (Canary Islands, Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment monitoring of fish farming activities of BLUE & GREEN PISCIFACTORÍA DEL SURESTE S.L. (Murcia, Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment monitoring of Viver-Atún S.A activities: fattening and greasing of red tuna (Murcia, Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment monitoring of Tunagrasso S.A activities: fattening and greasing of red tuna. (Murcia, Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment monitoring of fish farming activities in Tenerife (Canarian islands, Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment monitoring of fish farming activities of CULMAMUR S.A.(Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 1999-2001** CICYT MAR 98-0449-C-2-01. Ministry of Science and Technology. *Study of habitat effect on adults and recruitment reef fishes at marine protected areas (SE Spain).* Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**
- 1997** Regional Ministry of Agriculture, Environment and Water. *Study of jellyfish populations (Cotylorhiza tuberculata) at Mar Menor. Problems and solutions.* Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**
- 1996** Regional Ministry of Agriculture, Environment and Water. *Study of jellyfish populations (Cotylorhiza tuberculata) at Mar Menor*

coastal lagoon (Spain). Project leader: Dr. Ángel Pérez Ruzafa.
MGW's role: researcher.

1995 IBERDROLA S.A. ***Evaluation of marine habitat surrounding the thermal power station (Escombreras, Spain).*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

1995 Regional Ministry of Agriculture, Environment and Water. ***Management of artificial reefs and establishment of start point of marine reserve Cape Palos and Hormigas islands (Spain).*** Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

COLLABORATIONS

PUBLIC INSTITUTIONS:

- FAO (Food and Agriculture Organization of the United Nations) (2020-2022)
- European Union, European Maritime and Fisheries Funds (FEMP) (2010-2022)
- INDICASAT-AIP, Panamá (2012-2017)
- ARAP, Autoridad de los Recursos Acuáticos de Panamá, Panamá (2017-2022);
- FCT (Fundação para a Ciência e a Tecnologia, Portugal)(2010-2020)
- Hellenic Centre of Marine Research (HCMR, Greece) (2012-2013)
- Canadian Government, Canada (2020)
- Norwegian Research Council, Norway (2020-2022)
- FARM (Fundación de Acuicultores de la Región de Murcia, Spain)(2020-2022)
- GALPEMUR (Grupo de Acción Local de Pesca y Acuicultura de la Región de Murcia, Spain)(2020-2021)
- Región de Murcia, Spain (2020-2022)
- Fisheries Department, Canary Islands, Spain (2019-2022)
- Ministerio de Agricultura, Pesca y Alimentación (Spain) (2020-2022)
- IEO, Spain (2004-2022)
- Instituto de Investigaciones Marinas y Costeras, INVEMAR, Colombia (2011-2015);
- AECI (Agencia Española para la Colaboración Iberoamericana, Center and South America)(2006-2007)

- Agencia Nacional de Evaluación y Prospectiva (ANEP), Spain(2016-2022)

RESEARCH CENTERS:

- Gorgan University of Agriculture Sciences and Natural Resources (Iran) (2018-2019);
- Centro do Estudos do Mar, Universidad Federal do Paraná, Pontal do Sul, Brasil (2014-2015);
- IOCAS, Chinese Academy of Sciences, Institute of Oceanology, China (2017-2020);
- University of Amsterdam, Netherlands (2013-2018);
- INDICASAT-AIP, Panamá (2012-2017);
- ARAP, Autoridad de los Recursos Acuáticos de Panamá, Panamá (2017-2020);
- Universidad de La Paz, México (2011-2014);
- University College Dublin, Ireland (2010-2012);
- University of Salford, United Kingdom (2012-2020);
- Australian Institute of Marine Science, Australia (2011-2015);
- Southern Cross University, Australia (2015-2018);
- Reunion University, French Polynesia (2011-2019);
- Ordu University, Turkey (2011-2021);
- Spanish Institute of Oceanography, Mallorca, Spain (2011-2012);
- Institute de Ciéncies del Mar, CSIC, Barcelona, Spain (2011-2012);
- Smithsonian Tropical Research Institute, Panamá (2008-2015);
- Instituto de Investigaciones Marinas y Costeras, INVEMAR, Colombia (2011-2015; 2021-2022);
- Universidad Tecnológica de Panamá, Panamá (2016-2022);
- Universidade Federal do Sul da Bahia, Brasil (2015-2018);
- Museo Nacional de Ciencias Naturales, CSIC, Madrid, Spain (2009-2019);
- Laboratorio di Ecologia Marina, National Research Council (CNR), Italy (2008-2013);
- Departament of Sciences, Ictiology Laboratory, University of Girona, Spain (2007);
- Centro de Investigação em Biodiversidade e Recursos Genéticos (CIBIO), Universidade do Porto (2005-2010);
- Departament of Biology, University of Tunisia (2006-2012; 2016-2018);
- Department of Fisheries, Oceanography Spanish Institute (IEO)(2004-2013);
- Department of Marine Biology, University of Alicante (2004-2005);

- Centre de Biologie et d'Ecologie Tropicale et Méditerranéenne Laboratoire d'Ichtyoécologie Tropicale et Méditerranéenne. Ecole Pratique des Hautes Etudes – CNRS. Université Perpignan, France (2002-2004).
- Laboratório de Praias Arenosas do Centro do Estudos do Mar, Universidad Federal do Paraná. Pontal do Sul (Brasil) (1997).
- Laboratório de Electroforeses, Departamento de Bioquímica da Universidad Federal do Paraná (Brasil) (1997).

PUBLICATIONS

Book chapters

1. Ortega, A., Cano-Pérez, J., Nhala, H., Id Halla, M., Kara, M.H., de la Gándara, F., Cerezo-Valverde, J., Cañavate, J.P., Fernández-Pasquier, V., **González-Wangüemert, M.**, Blanco, E. (2021). Aquaculture in the Alboran Sea (659-706pp). In: Báez J.C., Vázquez JT., Camiñas J.A., Malouli Idrissi M. (eds) *Alboran Sea-Ecosystems and Marine Resources*. Springer, https://doi.org/10.1007/978-3-030-65516-7_20
2. García-Charton, J.A., **González-Wangüemert, M.**, Marcos, C., Esparza-Alaminos, O., Felix-Hackradt, F., Hackradt, C., Treviño-Oton, J., Pérez-Ruzafa, A. (2012). Marine protected areas and connectivity. Estevez-Selma, M.A., Martínez-Paz, J.M., Soro-Mateo, B. (Eds). In: *Ecological, economic and legal assessment of the natural areas network from Murcia (Spain)*. 181-209 pp. ISBN: 978-84-15463-18-4. Editum, Universidad de Murcia, Servicio de Publicaciones, Murcia, Spain. 404 pp.
3. García-Charton, J.A., Esparza-Alaminos, O., **González-Wangüemert, M.**, Marcos, C., Salas, F & Pérez-Ruzafa, A. (2008). *Ecological effects of Atlanto-Mediterranean MPAs in the EU. Case Studies: Cabo de Palos-Islas Hormigas*. Higgins, R., Mangi, S., Salas, F., Smith, P., Vandeperre, F. (Eds.). Vol. I, 15-19. MU-1614-2008. ISBN: 978-84-8371-723-3.
4. Pérez-Ruzafa, A., Esparza-Alaminos, O., García-Charton, J.A., **González-Wangüemert, M.**, Marcos, C. & Salas, F. (2008). *Fishery regimes in Atlanto-*

Mediterranean European MPAs. Vol. II, 7-11. MU-1293-2008. ISBN: 978-84-8371-724-0.

5. García-Charton, J.A., Pérez-Ruzafa, A., **González-Wangüemert, M.**, Marcos, C., Herrero, A., Esparza, O., Polti, S., Entrambasaguas, L. (2007). Amenazas ambientales y Conservación. Capítulo 6. En: *Fondos del Mediterráneo Español*. Nextcomm S.L. (Eds.). M-11727-2007.

6. **González-Wangüemert, M.**, Pérez-Ruzafa, Á., Marcos, C. & García-Charton, J.A. (2004). Effects of fishing protection on the genetic structure of target fish population. C.P.D. S.L. (ed.) In: *Oceans III Millenium (I)*, 259-264. ISBN: 84-9758-463-5.

7. **Gonzalez-Wanguemert, M.**, Marcos, C., García-Charton, J.A & Pérez-Ruzafa, Á. (2002). Importance of population genetics in the management of marine protected areas. Aragonés, E. (ed.). In: *Mediterranean Symposium on Marine and Coastal Protected Areas*, 339-348. ISBN: 84-393-5937-3.

Papers in international journals (listed in SCI)

69 papers in ISI, 48 papers with ≤ 4 authors, 25 papers as first author, 27 papers as supervisor/coordinator of research; 32 focused on sea cucumbers; h-index: 22; i-10 index: 50; 1545 citations.

Echinoderms

1. Domínguez-Godino, J., **González-Wangüemert, M.** (2020) Habitat associations and seasonal abundance patterns of the sea cucumber *Holothuria arguinensis* at Ria Formosa coastal lagoon (South Portugal). *Aquatic Ecology*, 54: 337-354. IF: 2.51

2. Domínguez-Godino, J., **González-Wangüemert, M.** (2020) Seagrass debris as potential food source to enhance *Holothuria arguinensis*' growth in aquaculture. *Aquaculture Research*, doi 10.1111/are.14495. IF: 1.45

3. Cánovas, F., Domínguez-Godino, J., **González-Wangüemert, M.** (2019) Epidemiology of skin ulceration disease in wild sea cucumber *Holothuria arguinensis*, a new aquaculture target species. *Diseases of Aquatic Organisms Journal*, 135: 77-88. IF: 1.54
4. Domínguez-Godino, J., **González-Wangüemert, M.** (2019) Improving the fitness of *Holothuria arguinensis* larvae through different microalgae diets. *Aquaculture Research*, doi 10.1111/are.14267. IF: 1.45
5. **González-Wangüemert, M.**, Domínguez-Godino, J., Aydin, M. (2019) Profitability of the new target sea cucumber species from Mediterranean and NE Atlantic: some repercussions for their fisheries management. *Indian Journal of Geo Marine Sciences*, 48 (11): 1715-1719. IF: 0.380
6. Domínguez-Godino, J., **González-Wangüemert, M.** (2018) Does space matter? Optimizing stocking density of *Holothuria arguinensis* and *Holothuria mammata*. *Aquaculture Research*, 49: 3107–3115. doi 10.1111/are.13773. IF: 1.56
7. Domínguez-Godino, J., **González-Wangüemert, M.** (2018) Assessment of *Holothuria arguinensis* feeding rate, growth and absorption efficiency under aquaculture conditions. *New Zealand Journal of Marine and Freshwater Research*, 53: 60-76. doi 10.1080/00288330.2018.1480499. IF:0.75
8. Domínguez-Godino, J., **González-Wangüemert, M.** (2018) Breeding and larval development of *Holothuria mammata*, a new target species for aquaculture. *Aquaculture Research*, 49: 1430-1440. doi: 10.1111/are.13597. IF: 1.46
9. **González-Wangüemert, M.**, Domínguez-Godino, J., Cánovas, F. (2018) The fast development of sea cucumber fisheries in the Mediterranean and NE Atlantic waters: from a new marine resource to its over-exploitation. *Ocean and Coastal Management Journal*, 151: 165-177. doi: 10.1016/j.ocecoaman.2017.10.002. IF: 2.39
10. **González-Wangüemert, M.**, Roggatz, C., Pereira, H., Rodrigues, M., da Silva, M., Barreira, L., Varela, J., Custódio, L. (2018) A new insight into the influence of habitat on the biochemical properties of three commercial sea cucumber species. *International Aquatic Research*, 10: 361- 373. IF: 1.05

11. Olaya-Restrepo, J., Erzini, K., **González-Wangüemert, M.** (2018) Estimation of growth parameters for an exploited sea cucumber species, *Holothuria arguinensis*, from South Portugal. *Fishery Bulletin*, 116: 1-8. IF: 1.510
12. Roggatz, C., **González-Wangüemert, M.**, Pereira, H., Vizzeto-Duarte, C., Rodrigues, M., Barreira, L., da Silva, M., Varela, J., Custódio, L. (2018) A first glance into the nutritional properties of the sea cucumber *Parastichopus regalis* from the Mediterranean Sea (SE Spain). *Natural Product Research*, 32: 116-120. doi: 10.1080/14786419.2017.1331224. IF: 1.02
13. **González-Wangüemert, M.**, Domínguez-Godino, J., Cánovas, F. (2018) New records of sea cucumbers inhabiting Mar Menor coastal lagoon (SE Spain). *Marine Biodiversity*, 48(4): 2177-2182. doi 10.1007/s12526-017-0660-0. IF: 1.646
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1. **González-Wangüemert, M.** (2021) WANGUMAR: A new company focused on advice and consultancy in sea cucumber aquaculture and fisheries management from the Mediterranean and northeast Atlantic regions. *Beche-de-Mer Information Bulletin*, 41: 79-81.
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CONGRESS

18 communications in National Congress

69 communications in International Congress

2021

1. **González-Wangüemert, M.** 2021. Member of Technical Program Committee (www.iceoe-conf.org/committee/index). International Conference on Ecology and Ocean Engineering (ICEOE). December 17-18, 2021. Wuhan, China.

2. **González-Wangüemert, M.** 2021. Invited Speaker: Profitability of Mediterranean and NE Atlantic sea cucumbers use on integrated multitrophic aquaculture systems (www.iceoe-conf.org/conference/invited). International Conference on Ecology and Ocean Engineering (ICEOE). December 17-18, 2021. Wuhan, China.

3. **González-Wangüemert, M.** 2021. Invited Speaker: Sea cucumber aquaculture made in Europe (www.wreconf.org/Speaker/Details?id=469). The 7th International Conference on Water Resource and Environment (WRE 2021). November 1-4, 2021. Xi'an, China.

2018

1. **González-Wangüemert, M.,** Withouck, I., Domínguez-Godino, J. A., Cánovas, F. The potential role of the sea cucumber *Holothuria polii* as an indicator for anthropogenic organic enrichment in coastal lagoons. Oral communication. MARCUBA, La Habana, Cuba.

2. **González-Wangüemert, M.,** Cánovas, F., Withouck, I., Domínguez-Godino, J. A., Moreira da Silva, M. Ecotoxicology of heavy metals in Mar Menor coastal lagoon (SE Spain) and its effects on *Holothuria polii*. Oral communication. MARCUBA, La Habana, Cuba.

3. Domínguez-Godino, J. A., **González-Wangüemert, M.** Habitat preference and abundance of *Holothuria arguinensis* in the Ria Formosa coastal lagoon and its implication for selection growth out areas. Poster. MARCUBA, La Habana, Cuba.
4. Domínguez-Godino, J. A., **González-Wangüemert, M.** Development of sea cucumber aquaculture in Europe. Oral communication. MARCUBA, La Habana, Cuba.
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6. Díaz-Suárez, A., Cánovas, F., **González-Wangüemert, M.** Assessing the validity of ossicles as a taxonomic criteria for Mediterranean and North-Western Atlantic sea cucumbers. Poster, 16th International Echinoderm Conference, Nagoya, Japan.
7. Kalvani, B., Sodagar, M., Mazandarani, M., Noori, A., **González-Wangüemert, M.** Inducing in vitro oocyte maturation of *Holothuria arguinensis* and *Holothuria leucospilota*, using radial nerve extract. Poster, 16th International Echinoderm Conference, Nagoya, Japan.
8. Domínguez-Godino, J.A., **González-Wangüemert, M.** Mass mortality of echinoderms across the Algarve coast (South Portugal) after the storm Emma. Poster, 16th International Echinoderm Conference, Nagoya, Japan.
9. Domínguez-Godino, J. A., Cruz, J. M., **González-Wangüemert, M.** *Holothuria mammata*: a new emergent species for sea cucumber aquaculture in North-Eastern Atlantic and Mediterranean Sea. Oral communication, 16th International Echinoderm Conference, Nagoya, Japan.
10. **González-Wangüemert, M.**, Díaz-Suárez, A., Domínguez-Godino, J. A., Cánovas, F. Molecular tools to assess the stocks of *Holothuria arguinensis* and implications for its management. Oral communication, 16th International Echinoderm Conference, Nagoya, Japan.
11. **González-Wangüemert, M.**, Domínguez-Godino, J.A. Avances en el cultivo de pepinos de mar en europa: *Holothuria mammata*. Acuituits, comunicación oral. IX Jornadas de Acuicultura en el Litoral Suratlántico. Huelva, España.

12. **González-Wangüemert, M.**, Domínguez-Godino, J.A. Evaluando sistemas de co-cultivo de nuevas especies emergentes en acuicultura. IX Jornadas de Acuicultura en el Litoral Suratlántico. Huelva, España.

13. Pavloudi, C., Vasileiadou, K., **González-Wangüemert, M.**, Arvanitidis, C., Chatzinikolau, E. Comparison of sediment microbial communities between Western (Ria Formosa, Portugal) and Eastern (Amvrakikos Gulf, Greece) European lagoons. Oral communication. 8th European Coastal Lagoons (EuroLag) Symposium, Athens, Greece.

2017

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ADVISOR EXPERIENCE

PhD supervised

1. **Dr. Giomar Helena Borrero Pérez.** European Program ALBAN (2007-2010). University of Murcia (Spain). Thesis: ***Systematics and phylogeography of species of subgenus Holothuria (Echinodermata: Holothuriidae: Holothuria) from Atlantic Mediterranean region.*** 26th March 2010. Classification: *Magna Cum Laudem.*
2. **Dr. Carlos Vergara Chen.** European Program ALBAN (2007-2009) and SENACYT (2010-2011). University of Murcia (Spain). Thesis: ***Genetic diversity, adaptation, and selection processes on the fauna from the Mar Menor coastal lagoon (SE Spain).*** 15th December 2011. Classification: *Magna Cum Laudem.* European PhD.
3. **Dr. José Martínez Garrido.** (2013-2017) Thesis: ***Systematics, speciation processes, reproductive strategies and genetic structure in Ruppia.*** CCMAR, Universidade do Algarve & Universidad de Alicante. 7th July 2017. Classification: *Magna Cum Laudem.* International PhD.
4. **Dr. Nathalie Marquet.** (2013-2017). Thesis: ***Study of the reproductive biology and chemical communication of sea cucumbers (Holothuria arguinensis and H. mammata).*** FCT grant (SFRH/BD/90761/2012). Universidade do Algarve. 24th November 2017.
5. **Dr. Jorge Domínguez Godino.** (2015-2018) Thesis: ***The sea cucumber Holothuria arguinensis, as new species for aquaculture.*** CCMAR, Universidade do Algarve & Universidad de Cádiz. 4th December 2018. *Sobresaliente Cum Laudem.*

6. **Dr. Bita Kalvani.** (2015-2018) Thesis: ***Inducing in vitro oocyte maturation in Holothuria arguinensis and Holothuria leucospilota, using radial nerve extract.*** Gorgan University of Agriculture Sciences and Natural Resources (Iran). 5th December 2018. *A Cum Laudem.*

Msc supervised

1. **Kerstin Hübner.** Master Thesis (EMBC): ***Comparing traditional mark-recapture method with a molecular approach based on genetic parentage assessment to estimate population size of syngnathids in patches of seagrass.*** CCMAR, Universidade do Algarve. 2012.

2. **Fernanda Rodrigues.** Master Thesis (EMBC): ***Role of coastal lagoons on genetic diversity: are they hotspots of biodiversity?*** CCMAR, Universidade do Algarve. 2013.

3. **Andjin Siegenthaler.** Master Thesis (EMBC): ***Spatial distribution patterns and population structure of Holothuria mammata and Holothuria arguinensis in the Ria Formosa (Portugal).*** CCMAR, Universidade do Algarve. 2013.

4. **Tiago Braga.** Master Thesis (BMB): ***Evaluation of the antioxidant and antitumor activity of extracts from marine invertebrates.*** CCMAR, Universidade do Algarve. 2014.

5. **Camilla Maggi.** Master Thesis (Universita' Politecnica delle Marche): ***Population and genetic structure of Parastichopus regalis (Cuvier, 1817) and its commensal Carapus acus (Brünnich, 1768).*** CCMAR, Universidade do Algarve (Portugal) and Universita Politecnica delle Marche (Italy). 2014.

6. **Siel Wellens.** Master Thesis (EMBC): ***Mangrove propagule predation by the crab Goniopsis cruentata in the subtropical Paranaguá Bay (S Brazil).*** Centro de Estudos do Mar – Universidade Federal do Paraná, Brazil. 2014.

7. **Julian Olaya.** Master Thesis (EMBC): ***Mapping the *Holothuria arguinensis* populations from Ria Formosa (Portugal)***. CCMAR, Universidade do Algarve. 2014.

8. **Silke Bossers.** Marine Master Thesis from Amsterdam University. ***The sea cucumber microbiome***. CCMAR, Universidade do Algarve and University of Amsterdam. 2015.

9. **Filipe Henriques.** Master Thesis (BMB): ***Genetic connectivity patterns in *Holothuria mammata* considering different spatial scales***. CCMAR, Universidade do Algarve. 2015.

10. **Marlene Wesselmann.** Master Thesis (EMBC): ***Linking genetics with oceanographic currents to establish the connectivity pattern of *Pinna nobilis* in the most Western Mediterranean***. CCMAR, Universidade do Algarve. 2015.

11. **Alfonso Díaz Suárez.** Master Thesis (BMB): ***Assessing the usefulness of traditional (ossicles) and molecular (barcoding) criteria to the right taxonomic identification of Mediterranean and North-Eastern Atlantic commercial sea cucumbers belonging to the genus *Holothuria****. CCMAR, Universidade do Algarve. 2016.

12. **Inne Withoutck.** Master Thesis (EMBC): ***Is the sea cucumber *Holothuria polii* a potential indicator species for organic enrichment in the sediments of coastal lagoons?***. CCMAR, Universidade do Algarve. 2016.

13. **Iarre Lafort.** Master Thesis (EMBC): ***Sheltering behaviour of the sea cucumber *Holothuria arguinensis* in the Ria Formosa (Portugal)***. CCMAR, Universidade do Algarve. 2016.

Bachelor Degree' project

1. **Catarina Antunes.** ***Effects of fishing protection on sea cucumber populations from Turkish coast***. Universidade do Algarve. 2012-2013.

2. **Rafaela Vicente. *Ecological contribution of the sea cucumbers from SE Iberian Peninsula.*** Universidade do Algarve. 2012-2013.

Students' stays (advisor)

1. **Mario León Ortega**, PhD Student from University of Murcia (Spain), during his CCMAR stay (02-11-2010/04-02-2011). This student was working on **owl ecology and population genetics (*Bubo bubo*, Linnaeus 1758)**.

2. **Lorena Basso**, PhD Student from IMEDEA (Spain), during her CCMAR stay (05-03-2011/20-05-2011). This student was working on ***Pinna nobilis* (Linnaeus, 1758) population genetics**.

3. **José Martínez Garrido**, PhD student during his CCMAR stay (10-01-2011/10-07-2011) with a fellowship from Leonardo da Vinci Programme. This student was working on **population genetics of several seagrass species (*Cymodocea nodosa*, *Zoostera noltii* and *Ruppia cirrhosa*)**.

4. **Jorge Domínguez Godino** (2 ETCS, EMBC laboratory methods A: Genetic signature of a recent invasion: ***Bursatella leachii* coming to Mar Menor coastal lagoon**), **Roberto Buonomo** (2 ETCS, EMBC laboratory methods A: DNA extraction from leaves samples of ***Ruppia cirrhosa***) and **Marco Pérez** (3 ETCS, EMBC laboratory methods A: **DNA extraction from sea cucumbers: *Holothuria tubulosa*, *H. polii* and *H. mammata***). CCMAR. 2011-2012.

5. **Mariana Silva** (Marine Biology Master, University of Algarve, 48 hours: **Study of the *Holothuria arguinensis* population dynamics in Ria Formosa**) and **Tiago Braga** (Marine Biology Master, University of Algarve, 48 hours: **Assessing the abundance and density of sea cucumber populations in Ria Formosa**). Universidade do Algarve. 2012-2013.

6. **Mathilde Lemoine** (2 ETCS, EMBC Laboratory Methods: **Comparative study of the epifauna community associated to *Holothuria arguinensis*** (Koehler & Vaney, 1906) **between different sampling sites** (Praia de Faro and Fuzeta) **and months** (October and November). CCMAR. 2012-2013.

7. **Naomi de Roeck** (2 ETCS, EMB Laboratory Methods: **Mark-recapture experiment of sea cucumber *Holothuria arguinensis* in the Ria Formosa**) and **Jana Rajnohova** (2 ETCS, EMB Laboratory Methods: **Assessing the ecology of *Holothuria arguinensis* population in Ria Formosa, Portugal**). CCMAR. 2012-2013.
8. **Ignacio Pérez-Blasco** (2 ETCS, EMBC Lab methods A: **Ecology and aquaculture of *Holothuria arguinensis***) and **Justine Siegwald** (2 ETCS, EMBC Lab methods A: **Ossicles morphology on *Holothuria arguinensis***). CCMAR. 2014-2015.
9. **Clhoé Moreau** (2 ETCS, EMBC Lab methods B: **Sea urchins populations in Ria Formosa (S Portugal)**) and 2 ETCS, Lab methods A: **Echinoderms larvae in Ria Formosa (S Portugal)**). CCMAR. 2014-2015.
10. **Louise Merquiol** (2 ETCS, EMBC Lab methods B: **Sea cucumber behaviour during low tide in Praia de Faro (Ria Formosa, S Portugal)**). CCMAR. 2014-2015.
11. **Anita Alessandrini** (2 ETCS, EMBC Lab methods A: **Morphometry of *Holothuria polii* ossicles**). CCMAR. 2014-2015.
12. **João Carlos Ferreira** (3 ETCS, Internship Marine Biology Master, UALG: **Morphometry of *Holothuria polii* ossicles**). CCMAR. 2014-2015.
13. **Mariana Santos** (3 ETCS, Internship Marine Biology Master, UALG: **Morphometry of *Holothuria arguinensis* ossicles**). CCMAR. 2014-2015.
14. **Matilde Costa** (3 ETCS, Internship Marine Biology Master, UALG: **Thermography on *Holothuria arguinensis* from Ria Formosa (S Portugal)**). CCMAR. 2014-2015.
15. **Marisa Gonçalves** (6 ETCS, 2 Internships marine Biology Master, UALG: 1) **Identification of Holothuroidea morphotypes from Antarctica; 2) Density and abundance of *Paracentrotus lividus* in Praia de Faro (Ria Formosa, S Portugal)**). CCMAR. 2014-2015.

16. **Nadja Velez** (3 ETCS, Internship Marine Biology Master, UALG: **Influence of sediments on *Cerastoderma glaucum* density and size classes from Mar Menor coastal lagoon (SE Spain)**). CCMAR. 2015-2016.

17. **Elizabeth Nebot** (3 ETCS, EMBC field methods A: **Preliminary assessment stocks of *Holothuria arguinensis* (Koehler & Vaney, 1906) in Ria Formosa**). CCMAR. 2015-2016.

18. **Marta Neves** (3 ETCS, Internship Marine Biology Master, UALG: **External fauna associated to *Holothuria arguinensis* and *Holothuria mammata* from Ria Formosa (S Portugal)**). CCMAR. 2016-2017.

19. **Sara da Costa Pereira** (3 ETCS, Internship Marine Biology Master, UALG: **Density and size distribution of *Holothuria arguinensis* and *Holothuria mammata* along Ria Formosa (S Portugal)**). CCMAR. 2016-2017.

20. **Lorenzo Cozzolino** (12 ETCS, Internship Marine Biology Master, UALG: **Microplastics on *Holothuria arguinensis* and *Holothuria mammata* from Ria Formosa (S Portugal)**). CCMAR. 2018-2019.

21. **Neal Scheraga** (6 ETCS, Intership Marine Biology Master, UALG: **Population dynamics of *Holothuria arguinensis* in Ria Formosa (S Portugal) and its relationship with foraminifera**). CCMAR. 2018-2019.

Stays of foreign researchers (advisor)

1. **Maria Segovia Viadero** (PhD student) from University of Cantabria (Spain). ***Genetic considerations on the releases of hatchery-reared juveniles into the wild populations to rebuild the sea urchin stocks from Cantábrico Sea***. 7 weeks. ASSEMBLE MARINE program (<http://www.assemblemarine.org/>), 2012.

2. **Katerina Vasileiadou** (PhD student), **Christina Pavloudi** (Msc student) and **Dr. Eva Chatzinikolaou** from Hellenic Centre of Marine Research (HCMR, Greece). ***Effects of stressful environmental factors in lagoonal ecosystems on marine microbial and invertebrate populations***. 5 weeks. ASSEMBLE MARINE program (<http://www.assemblemarine.org/>), 2012.

3. **Dr. Pilar Casado de Amezua** from Museo Nacional de Historia Natural (CSIC, Spain). ***Genetic characterization of zooxanthellae hosted by Mediterranean and Atlantic sea anemones from sea grass meadows: in search of species-specific clade.*** 4 weeks. ASSEMBLE MARINE program (<http://www.assemblemarine.org/>), 2013.
4. **Katerina Vasileiadou** (PhD student), **Christina Pavloudi** (Msc student) and **Dr. Eva Chatzinikolaou** from Hellenic Centre of Marine Research (HCMR, Greece). ***Effects of stressful environmental factors in lagoonal ecosystems on marine microbial and invertebrate populations.*** 3 weeks. ASSEMBLE MARINE program (<http://www.assemblemarine.org/>), 2013.
5. **Ozan Sen** (Msc student) from Ordu University (Turkey). ***Genetic diversity of the *Holothuria mammata* populations from the Turkish coasts.*** 4 months. ERASMUS program. CCMAR, Universidade do Algarve. 2013.
6. **Chloé Moreau** (Msc student) from Paris University (France). ***Density and length distribution of *Paracentrotus lividus* in Ria Formosa (South Portugal).*** Practical credits on Field Methods B subject (48 h) and Lab Methods (24h). 6 months. ERASMUS program. 2014-2015.
7. **Rachel Conell** (Degree student) from Brigham Young University (United States of America). She collaborated on **CUMFISH Project (Sea cucumbers fisheries; PTDC/MAR/ 119363/2010)** funded by Fundação para a Ciência e a Tecnologia (Portugal). 1 month (2nd- 30th June 2014).
8. **Virginia Reina Pastor** (Degree student) from University of Sevilla (Spain). ***Sea cucumbers from Antarctica.*** 1 month (16th September-16th October 2016).
9. **Donia Kalthoumi** (PhD student) from Tunisia University (Tunisia). ***Traditional taxonomy and barcoding of sea cucumbers from Tunisian coasts.*** 2 months. (1st June-30st July 2017).
10. **Bitá Kalvani** (PhD student) from Gorgan University (Iran). ***Induction to oocytes maturation from extracts of radial nervus on *Holothuria arguinensis*.*** 6 months. (1st July 2017-2nd January 2018).

11. **Donia Kalthoumi** (PhD student) from Tunisia University (Tunisia). **Traditional taxonomy and barcoding of sea cucumbers from Tunisian coasts**. 3 months. (1st May-30st July 2018).

TEACHING EXPERIENCE

To join the Spanish University Teaching Bodies, i.e. Senior lecturer and Professor, prior national assessment is required which, by assessing the merits and competences of the candidates, ensures quality when selecting university academic staff. The assessment procedure is carried out by teaching body and branch of knowledge. **Dr. Mercedes Wangüemert got in 2012 the positive assessment for Senior Lecture (“Acreditación de Profesor Titular”) activity by the National Agency for Quality Assessment and Accreditation of Spain** (<http://www.aneca.es/eng/Programmes/ACADEMIA>).

During several years Dr. Mercedes González-Wangüemert has given practical and theorist lessons at the University of Girona, University of Murcia (Spain), Technological University of Panamá (Panama) and Universidade do Algarve (Portugal) reaching more than 800 hours.

2018-2019

CCMAR & Universidade do Algarve: *Experimental methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 4 ETCS (36 h).

CCMAR & Universidade do Algarve: *Intership of Aquaculture and Fishery Master*. 12 ETCS (108 h).

CCMAR & Universidade do Algarve: *Intership of Marine Biology Master*. 6 ETCS (52 h).

Universidad Tecnológica de Panamá. Ciudad de Panamá, Panamá. 2 weeks. Topic: *Workshop on fishery management of sea cucumbers*. 30h.

Fisheries and Aquaculture Master, University of Algarve, Faro, Portugal. Seminar: *Sea cucumber fishery and aquaculture in Portugal*. 7th December 2018. Gambelas, Portugal (2h).

Mid Season Campus, University of Algarve, Faro, Portugal. June 10th-16th. Seminar: *Development of sea cucumber aquaculture in Europe*. Gambelas, Portugal. (2h)

Course "CAL-AQUA 3rd edition: *Care in handling aquatic organisms: Basic and appropriate biology of other invertebrates, sea cucumbers*. University of Algarve, Faro, Portugal. (3h)

2016-2017

Universidade do Algarve: *Experimental methods in Marine Biology*. Msc in Marine Biology, Universidade do Algarve. 6 ETCS (54 h).

Universidad Politécnica de Panamá: *Applications of population genetics to ecology and management of marine coastal resources*. Universidad Politécnica de Panamá, Ciudad de Panamá. 40h.

2015-2016

Universidade do Algarve: *Experimental methods in Marine Biology*. Msc in Marine Biology, Universidade do Algarve. 6 ETCS (54 h).

CCMAR & Universidade do Algarve: *Experimental methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 4 ETCS (36 h).

INDICASAT & Universidad de Panamá: *Application of molecular tools to sea cucumber fishery management, aquaculture and restocking*. Course for high degree students, INDICASAT, 20h.

2014-2015

CCMAR & Universidade do Algarve: *Experimental methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 4 ETCS (36 h).

CCMAR & Universidade do Algarve: *Field and laboratory methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 6 ETCS (54 h).

2013-2014

CCMAR & Universidade do Algarve: *Experimental methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 4 ETCS (36 h).

2012-2013

CCMAR & Universidade do Algarve:

- *Field and laboratory methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 2 ETCS (18 h).
- *Experimental methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 4 ETCS (36 h).

2011-2012

CCMAR & Universidade do Algarve: *Field and laboratory methods in Marine Biology*. Erasmus Mundus Msc in Marine Biodiversity and Conservation. 6 ETCS (54 h).

2009- (February) 2010

University of Murcia (Spain)(80h):

- *Marine Ecology: Biological Oceanography*, practical and theoretical lessons. 4th Course of Biology Degree, Marine Biology Speciality.
- *Exploitation of Marine Resources*, practical and theoretical lessons. 5th Course of Biology Degree, Marine Biology Speciality.

2008- 2009

University of Murcia (Spain) (80h):

- *Methodological and Quantitative Ecology*, practical lessons. 4th Course of Biology Degree.
- *Ecology*, practical lessons. 2nd Course of Biology Degree

- *Exploitation of Marine Resources*, practical and theoretical lessons. 5th Course of Biology Degree, Marine Biology Speciality.
- *Ecology and exploitation of marine populations*, theoretical lessons. Master "Fishes Biology. Basic and functional aspects".
- *Biodiversity patterns and management at marine ecosystems and brackish waters*, theoretical lessons. Master "Biodiversity management at Mediterranean environment".

2007- 2008

University of Murcia (Spain) (80h):

- *Exploitation of Marine Resources*, practical and theoretical lessons. 5th Course of Biology Degree, Marine Biology Speciality.
- *Ecology*, practical lessons. 2nd Course of Biology Degree.
- *Ecology*, practical lessons. 3rd Course of Environmental Sciences Degree.
- *Methodological and Quantitative Ecology*, practical lessons. 4th Course of Biology Degree.
- *Biodiversity patterns and management at marine ecosystems and brackish water*, theoretical lessons. Master "Biodiversity management at Mediterranean environment".
- *Ecology and exploitation of marine populations*, theoretical lessons. Master "Fishes Biology. Basic and functional aspects".
- *Ecology at XXI Century*. Theorist lessons. 2nd Course. Senior University of Murcia. Ecology Speciality.

2006- 2007

University of Girona (Spain): *Evolutionary Biology*, practical lessons. 2nd Course Biology Degree. 6 months.

2004-2005

University of Murcia (80h):

- *Ecology and Management of Marine Ecosystems*, theorist lessons. 4th Course Biology Degree.

- *Exploitation of Marine Resources*, practical lessons. 5th Course Biology Degree, Marine Biology Speciality.
- *Ecology at XXI Century*. Theorist lessons. 2nd Course. Senior University of Murcia. Ecology Speciality.

2003-2004

University of Murcia (80h):

- *Introduction to marine mammals*. Diving with dolphins. Theorist and practical lessons. Diving Club of University of Murcia.
- *Ecology at XXI Century*. Theorist lessons. 2nd Course. Senior University of Murcia. Ecology Speciality.

2001-2002

University of Murcia (10h): *Marine Resources Exploitation*, practical lessons. 5th Course Biology Degree, Marine Biology Speciality.

2000-2001

University of Murcia (10h): *Marine Resources Exploitation*, practical lessons. 5th Course Biology Degree, Marine Biology Speciality.

1995-1996

University of Murcia (10h): *Oceanography*, practical lessons. 5th Course Biology Degree, Marine Biology Speciality.

STAYS IN RECOGNIZED CENTRES

1997. Laboratório de Praias Arenosas do Centro do Estudos do Mar, Universidade Federal do Paraná. Pontal do Sul, Brasil. 5 weeks. Topic: Molecular ecology, Molluscs, *Pecten ziczac*

1997. Laboratório de Electroforeses, Departamento de Bioquímica da Universidad Federal do Paraná. Curitiba, Brasil. 3 weeks. Topic: Marine genetics

2002. Centre de Biologie et d'Ecologie Tropicale et Méditerranéenne Laboratoire d'Ichtyoécologie Tropicale et Méditerranéenne Ecole Pratique des Hautes Etudes - CNRS Université de Perpignan. Perpignan, France. 1 week. Topic: Population genetics of *Diplodus sargus*

2005-2007. Centro de Investigação em Biodiversidade e Recursos Genéticos (CIBIO), Universidade do Porto. Porto, Portugal. 80 weeks. Topic: Postdoctoral grant on genetic structure of Mediterranean and Atlantic fish populations.

2006. Department of Biology, University of Tunisia. Tunisia. 2 weeks. Topic: Discussion of results from AECI 2005-2006 (A/4396/05) Project. Sparid genetics.

2009. Centre: Centro do Ciências do Mar do Algarve (CCMAR). Faro, Portugal. 5 weeks. Topic: postdoctoral stay on genetic adaptation, selection, coastal lagoons.

2009. Centro do Ciências do Mar do Algarve (CCMAR). Faro, Portugal. 12 weeks. Topic: Genetic adaptation, GIS, GAM, modelling, coastal lagoons

2015. INDICASAT, Scientific Investigation Institute and High End Technology Services. Ciudad de Panamá, Panamá. 2 weeks. Topic: Course Sea cucumber aquaculture; Invited researcher.

2017. INDICASAT, Scientific Investigation Institute and High End Technology Services. Universidad Tecnológica de Panamá. Ciudad de Panamá, Panamá. 2 weeks. Topic: Course Molecular tools on fisheries and ecosystem management; Invited researcher.

2017. IOCAS, Institute of Oceanology, Chines Academy of Sciences, Qingdao, China. 10 days. Topic: collaboration on sea cucumber aquaculture research under CUMARSUR project.

2018. Universidad Tecnológica de Panamá. Ciudad de Panamá, Panamá. 2 weeks. Topic: Workshop on fishery management of sea cucumbers; Invited researcher.

MEMBER IN PROFESSIONAL ASSOCIATIONS

2007- 2022 Member of Spanish Society of Evolutionary Biology (SESBE).

2004-2009 Member of the Committee for Courses and Activities of Diving University Club (CUAS) (University of Murcia, Spain).

2002-2005 Member of the Committee for University Staff Meeting. University of Murcia.

1995-2010 Member of Diving University Club, University of Murcia (Spain).

OTHER MERITS

Organization and/or participation on scientific dissemination activities

2020

The Blue Growth Summit. Round table on promotion of Sustainable Blue Growth. Sieneva Foundation & Intemares Program & European Union, November 25th, 2020. Málaga.

2019

Member of Scientific Committee: Increase 2019, International Congress on Engineering and Sustainability in the XXI Century. Faro, Portugal, October 09–11, 2019.

2018

1. *Día Aberto do CCMAR (Open Doors Day in CCMAR)*, Faro, Portugal. 22 Fevereiro 2018. Activities "Organismos que habitam a Ria" ("Marine organisms inhabiting Ria Formosa"). Students (14-16 years old) from several High Schools from Faro and Olhão.

2. I Workshop Técnico em IMTA, Olhão, Portugal. Projecto AQUATRANSFER. 12 de Abril de 2018. "Desenvolvimento do cultivo de pepino do mar e avaliação de sistemas de cultivo integrado com espécies emergentes". Olhão, Portugal.

3. Mid Season Campus, University of Algarve, Faro, Portugal. 10th-16th June. Seminar: "Development of sea cucumber aquaculture in Europe". Gambelas, Portugal.

4. Course "CAL-AQUA 3rd edition: Care in handling aquatic organisms: Basic and appropriate biology of other invertebrates, sea cucumbers. 2nd-7th July 2018, University of Algarve, Faro, Portugal.

5. Conversas a Hora Certa: Mesa Redonda. Ria Formosa e as espécies em vias de extinção: Perspectivas, desafios e medidas de mitigação de impacte nas populações de cavalos-marinhos e pepinos do mar. Organized by Faro 1540 organization. Café Aliança. 6th December 2018, Faro, Portugal.

2017

1. Visit of Generals from Portuguese Navy to Ramalhete facilities (CCMAR activity). Sea cucumbers activities: description of ecological importance, aquaculture future, economical importance, illegal fisheries. 7th June 2017.

2. *Día Aberto do CCMAR (Open Doors Day in CCMAR)*, Faro, Portugal. Activities, 23th February 2017: "Organismos que habitam a Ria" ("Marine organisms inhabiting Ria Formosa"). Students (14-16 years old) from several High Schools from Faro and Olhão.

3. Activities with Hokkaido University Group, field and lab work, Faro, Portugal. March 2017: "Fisheries and aquaculture of sea cucumbers from mediterranean and NE Atlantic waters". Six students (Msc and graduate) and two professors from Hokkaido University (Japan). 2 weeks.

4. Visit of ambassador from Corea (Mr. Chul-Min Park) to MARESMA lab (CCMAR) in 5th Dezember 2017. Talk about the main research lines of the team, focused on sea cucumber aquaculture and processing methodology of beche-de-mer product.

2016

1. *Semana da Cultura Científica do CCMAR*, Faro, Portugal. Exposition of four posters presented to previous national and international congresses. 21st-25th November 2016.

2. *Oceans Meeting (Economy, Ocean Culture, Science and Innovation)*, Lisbon, Portugal. Activities, 2nd-3rd June 2016: "Sea cucumbers: how to cultivate and commercialize new species for our table!" (Dr. Mercedes Wangüemert).

3. *Farnautica*, Faro, Portugal. Activities, 6-8th May 2016: "Descubra tudo sobre pepinos do mar" ("Discovering everything on sea cucumbers").

4. *Día Aberto do CCMAR (Open Doors Day in CCMAR)*, Faro, Portugal. Activities, 18th February 2016: "Organismos que habitam a Ria" ("Marine organisms inhabiting Ria Formosa"). Students (14-16 years old) from several High Schools from Faro and Olhão.

5. Activities with Hokkaido University Group, field and lab work, Faro, Portugal. March 2016: "Ecology and biology of *Holothuria arguinensis* in Ria Formosa (S Portugal)". Six students (Msc and graduate) and two professors from Hokkaido University (Japan). 2 weeks.

6. Visit of Japanese ambassador to MARESMA lab (CCMAR) in 14th March 2016. Talk about the main research lines of the team and exhibition of the equipment and facilities used by students and professors from Hokkaido University.

2015

1. Course "Application of molecular tools on fishery management, aquaculture and restocking of sea cucumbers". INDICASAT AIP (Instituto de Investigaciones Científicas y Servicios de Alta Tecnología de Panamá), ARAP (Autoridad de los Recursos Acuáticos de Panamá) and CCMAR (Centro de Ciências do Mar). Ciudad de Panamá, Panamá. 20 hours. November.

2. *BlueWeek*, Lisbon, Portugal. Activities. 4-6th June 2015: (i) In Gulbenkian Oceans Hub, 5th June 2015, talk and get together about new aquaculture

resources in Europe.; (ii) Stand about aquaculture on European sea cucumbers; (iii) tasting of several receipts of *Holothuria arguinensis* (funded by Sayanes Mar S.L.).

3. Program "*Ocupação Científica de Jovens nas Férias*". (Summer intership for teenagers in CCMAR). Activity "Sea cucumbers as potential resource for aquaculture" (field sampling, DNA extractions, PCRs, visual census, sea cucumber termography). July 2015.

2014

1. Workshop from CUMFISH project (Sea Cucumbers: the new resources for a hungry fishery; PTDC/MAR/119363/2010) funded by FCT (Fundação para a Ciência e a Tecnologia, Portugal) and European Union (EMBC and Erasmus Programs).

2. Activities during the *Science and Technology Week*. Talk: Sea cucumbers from Algarve (South Portugal) and aquaculture potential. Secondary School Dr. Francisco Fernandes Lopes de Olhão (S Portugal). November 2014.

3. Activities during the *Science and Technology Week*. Exhibition on sea cucumbers from Europe: economical and ecological value. Centro de Ciência Viva de Tavira and CCMAR. Mercado de Tavira (S Portugal), November 2014.

4. Program "*Ocupação Científica de Jovens nas Férias*". (Summer intership for teenagers in CCMAR). Activity "Sea cucumbers ecololgy and aquaculture" (field sampling, DNA extractions, PCRs, visual census, sea cucumber termography). July 2014.

2015-2012

1. CUMFISH volunteer program for visual census of sea cucumbers in Mediterranean Sea and Atlantic Ocean.

2. CUMFISH volunteer program for mark-recapture sea cucumbers in Mediterranean Sea and Atlantic Ocean.

2013

1. Spreading activity on “Ecological role of sea cucumbers” working with children (5-14 years old) in collaboration with DICA organization, University of Algarve and CCMAR. Praia de Faro (Ria Formosa, Portugal). 27 th July 2013.

2. *European Researchers' Night*. Activities on DNA barcoding: identification of sea cucumbers and CUMFISH project. November 2013.

2012

1. *Science and Technology Week*. Talk: Sea cucumbers from Algarve (South Portugal). Centro de Ciência Viva de Tavira (S Portugal). 20th November 2012.

2. *European Researchers' Night*. Activities on DNA barcoding: identification of sea cucumbers. November 2012.

Outreach

2021

Interview and article in BBC: Sea-cucumber divers off Liberia risk danger to feed a hunger in China by Lucinda Rouse. (<https://www.bbc.com/news/world-africa-56402550>)

2020

Interview and article in Wired UK: Europe’s lucrative, illegal, trade in sea cucumbers is booming by Sabrina Weiss. (www-wired.co.uk/article/sea-cucumbers-spain-trade)

2019

Interview Biosfera Digital (Lanzarote, Canary Islands, Spain): Sea cucumber aquaculture in Canary islands. (<https://www.biosferadigital.com/noticia/entrevista-mercedes-gonzález-wangüemert>)

2018

1. Interview Antena 1 (RTP, Portugal): Problemática das pescas de pepinos de mar em Portugal e desenvolvimento da sua aquacultura (https://www.rtp.pt/play/p2063/e345582/ponto-de-partida?fbclid=IwAR1f9RIKBh9EPktA3GP_-U0sZBYIIuCA9QBM29HHpt8BQ-wXTChzOB7b8HA).

2. Outreach: "Guatizamar, Adiós Lanzarote". Paper published in BiosferaDigital newspaper (<https://www.biosferadigital.com/noticia/guatizamar-adi%C3%B3s-lanzarote>), 20th March.

2017

Outreach: Report & Interview "El hallazgo de dos nuevos pepinos de mar refuerza la tesis de la 'mediterrización' del mar Menor"; Blog "Elclickverde", 2nd July 2017, (<http://elclickverde.com/reportajes/el-hallazgo-de-dos-nuevos-pepinos-de-mar-refuerza-la-tesis-de-la-mediterrizaci%C3%B3n-del>)

2016

Outreach: Report & Interview "Apanha ilegal de pepinos do mar no Algarve para o mercado asiático (SIC noticias), 2016, 30th January (<http://sicnoticias.sapo.pt/pais/2016-01-30-Apanha-ilegal-de-pepinos-do-mar-no-Algarve-para-o-mercado-asiatico>).

Outreach: Interview "Aumenta captura ilegal de pepinos do mar no Algarve" report in TV (RTP noticias), 2016, 24th March, (http://www.rtp.pt/noticias/pais/aumenta-captura-ilegal-de-pepinos-do-mar-no-algarve_v906248).

Outreach: Interview "Os pepinos do mar estão a desaparecer da Ria" report in TV (Portugal em Direto RTP), 2016, 18th October (<http://www.rtp.pt/play/p2225/e255071/portugal-em-direto>).

Outreach: Interview "Pepinos do mar da Ria Formosa em risco de extinção" in the Antena 1 (Radio) - Portugal em Direto (14-10-2016) (<https://www.youtube.com/watch?v=IQ95gFP0Cu4>).

Outreach: Interview "Pepinos-do-mar da Ria Formosa já estão em risco de extinção". Paper published in Barlavento newspaper, Destaque, pp4-5. 2016, 6th October.

Outreach: Interview "Tem havido uma razia nos pepinos-do-mar da Ria Formosa". Paper published in Publico newspaper, Ciência, pp 27. 2016, 13th October. Dr. Mercedes Wangüemert.

Outreach: "Predadores das águas". Paper published in Expresso newspapers (Primeiro Caderno Ambiente), pp 24-25. 2016, 23th July.

2015

Outreach: "Reprodução de pepinos-do-mae em aquacultura". Paper published in Dirigir & Formar Magazine, nº10, "Ouro Azul", pp 22-24. 2016, March.

Interview "Captura de pepinos do mar preocupa investigadores da UAlg" report in TV (RTP noticias), 2015, 17th January, (http://www.rtp.pt/noticias/pais/aumenta-captura-ilegal-de-pepinos-do-mar-no-algarve_v906248) (<https://www.youtube.com/watch?v=Lrwwuro77S8>).

Interview "Pepinos do mar chegam a valer 200 euros o quilo" report in TVI 24h, 2015, 16th January (<http://www.tvi24.iol.pt/videos/sociedade/pepinos-do-mar-chegam-a-valer-200-euros-o-quilo/54b97e740cf23da0817fc11b/1>).

2014

Aquacultura do pepino do mar na Universidade do Algarve. RTP 1 - Portugal em Direto, 2014, 28th November 28 (<https://www.youtube.com/watch?v=zW8cj0w-Zy8>).

"Sea cucumber breeding in captivity opens new perspectives". Paper published in Aquaculture Magazine, 2014, 11th December. (<http://www.aquaculturemag.com/daily-news/2014/12/11/sea-cucumber-breeding-in-captivity-opens-new-perspectives>)

"Pepinos do mar: un novo recurso". Paper published in Algarve 123 newspaper, nº 815, pp5-7. 2014, 18th December. (<http://www.algarve123.com/>)

"Pepinos do mar já podem ser produzidos em aquacultura". Paper published in Atlântico Expresso newspaper, Ciência Hoje. 2014, 10th November. (https://www.ualg.pt/sites/default/files/recortes/atlanticoexpresso_10-11-2014.pdf)

"Investigadores reproduzem pepinos-do-mar". Paper published in Correio da Manhã Algarve, 2014, 23th October. (https://web.ccmr.pt/en/assets/files/Press/Clipping/2014/22_10_2014_CM_pepinosMar.pdf).

"Universidade do Algarve cria "Pepinos do Mar" em aquacultura". Interview in TSF Rádio Notícias, 2014, 22th October. (<http://www.tsf.pt/vida/ambiente/interior/universidade-do-algarve-cria-pepinos-do-mar-em-aquacultura-4195533.html?id=4195533>). Interviewer: Maria Augusta Casaca.

"Reprodução de pepinos em aquacultura". Interview in Antena 1 (Rádio), 2014, 28th October. Interviewer: Mário Antunes.

"Investigadores da Universidade do Algarve fazem reprodução inédita em aquacultura", Paper published in Folha do Domingo Newspaper, 201, 23th October (<http://folhadomingo.pt/investigadores-da-universidade-do-algarve-fazem-reproducao-inedita-em-aquacultura/>).

"Universidade do Algarve está a criar pepinos-do-mar em terra". Article published in Jornal Publico newspaper, Ciência, 2014, 9th December.

Workshops, seminars and webinars (selection)

2022. Indústria 4.0 na Economia do Mar. Inovsea, Portugal. January, 19th-20th 2022.

2022. Pensar as algas "fora de água". Associação Portuguesa de Algologia Aplicada, Portugal. January 17th 2022.

2021. International Seminar MACAROFood 2021: Enhancement of marine products from Macaronesia. Tenerife, November 4th-6th. Universidad de La Laguna, Canary Islands (Spain), INTERREG project.

2021. FAO Courses. Prevention of Fraud and other Corrupt Practices. July 2021.

2021. FAO Courses. Prevention of Harassment, Sexual Harassment and Abuse of Authority. July 2021.

2021. Workshop on Communication and Scientific outreach. University of País Vasco, Bilbao (Spain). June 23rd and 30th, 2021.

2021. FAO Courses. FAO's Whistleblower Protection Policy. May 2021.

2021. FAO Courses. Protection from Sexual Exploitation and Abuse (PSEA). June 2021.

2021. FAO Courses. Achieving Gender Equality in FAO's Work. May 2021.

2021. Projects of International Technological Cooperation from CDTI in Western Africa. PROEXCA, CDTI, Instituto Tecnológico de Canarias, Ministerio de Ciencia e Innovación (Spain) and ICEX (España Exportación e Inversiones). March 23th 2021.
<https://proexcac Canarias.webex.com/proexcac Canarias-es/onstage/g.php?MTID=ead31ea5ed0a673e1665f257a9dba5a54>

2021. The Economist Group's Event: Technology for Change Week Asia. Applying Technology for the Social Good. March 8th-12th 2021.

<https://events.economist.com/events-conferences/asia/technology-for-change-week>

2021. The Economist Group's 8th Annual World Ocean Summit Virtual Week. Accelerating a sustainable ocean economy. March 1st-5th 2021. <https://events.economist.com/world-ocean-summit/>

2021. Webinar: Developing community-based sea cucumber farms in Madagascar. Reef Resiliencie Network & Blue Ventures. Feb 22, 2021 2:00 PM - 3:00 PM CET. <https://reefresilience.org/sea-cucumber-farming/>

2020. FAO Courses. Bsafe Course. December 2020.

2018. Training on management of hospital residues and animal subproducts from production installations. AMBIMED, Gestão Ambiental, Lda. University of Algarve, Portugal.

2017. Training on management of dangerous residues from research laboratories. University of Algarve, Portugal.

2016. Training on management of dangerous residues from research laboratories. University of Algarve, Portugal.

2015. Introduction to Statistical Fisheries Stock Assessment. University of Algarve, CCMAR and IPMA, Portugal.

2014. CUMFISH Workshop. University of Algarve, Portugal.

2012. Biotechnology applied to aquaculture. University of Algarve, Portugal.

2005. I Conference of Applied Proteomic. University of Alicante. Spain.

2004. Workshop of Fishery Resources. University of Cádiz and Regional Agricultural and Fishery Ministry. Spain.

2004. Workshop of Spatial Date Infrastructure. New requirements and contributions from environment. Service of Information and Environmental Integration of Murcia (SIGA). Spain.

2004. XV Seminar of Population Genetics and Evolution. Spanish Genetic Society. Guadalajara (Spain).

2002. Workshop of Stereology. University of Murcia. OLYMPUS. Spain.

2002. Research Forum to Spanish Fishery in Mediterranean Sea. University of Alicante, Spain.

2000. Workshop of Applied Statistics. University of Murcia, Spain.

1999. International Workshop about Marine Reserves. Agricultural and Fishery Ministry. Spain.

Courses (selection)

2020. Qualitative and quantitative feasibility of my business planning. SPEG. Sociedad de Promoción de Canarias, Cabildo de Gran Canaria. 21-22 Julio 2020.

2020. Energy efficiency at industry. (F182137AA.2/134). 70 horas. Servicio Público de Empleo Estatal (SEPE), Ministerio de Trabajo y de Economía Social, Gobierno de España.

2020. Services strategy: Quality and guidance to the customer. (COMM004PO). 100 horas. Servicio Público de Empleo Estatal (SEPE), Ministerio de Trabajo y de Economía Social, Gobierno de España.

2009. International Symposium "Darwin and Evolution: 150 years of Natural Selection". Ramón Areces Foundation, Madrid (Spain). November 23-24.

2009. Conference: Adaptation to European Space for Higher Education. Biology Faculty, University of Murcia, Spain.

2008. Interspecific relationships in Conservation Biology. Internacional Course. Fundación Ramón Areces and CIBIO, University of Alicante, Spain.

2008. Prevention of risks in laboratories. University of Murcia, Spain.

2007. Conference: Adaptation to European Space for Higher Education. Biology Faculty, Universitat de Girona, Spain.

2007 Conference: Adaptation to European Space for Higher Education. Escola Politècnica Superior, Universitat de Girona, Spain.

2006 Course of Phylogenetic analyses. CIBIO-University of Porto. Portugal.

2003 V Course of Prevention and Treatment of Diving Accidents. University of Murcia and Spanish Navy. Spain.

2003 Diving Course. Advanced Scuba Diver. NAUI.

2002 Pleasure Craft Skipper. Motor and Sail Ship.

2001 Speciation, phylogeny and phylogeography. University of Murcia, Spain.

2001 Electrophoretic methods to separation and identification of macromolecules. University of Murcia, Spain.

2001 Conservation and restoration of aquatic ecosystems: ideas and programs. University of Murcia, Spain.

2001 Management of coastal ecosystems. University of Murcia, Spain.

1994 Diving Course. Open Water Diver. PADI EUROPE.

Review and Referee activities

2021

Report as sea cucumber specialist about the relevance of licences to catch *Holothuria arguinensis* and *Holothuria mammata* from Setúbal (Portugal)". Report provided to DRGM (Direcção Geral de Recursos Naturais, Segurança e Serviços Marítimos) & IPMA (Instituto Português do Mar e da Atmosfera), Portugal. March 2021.

2019

Report as specialist on the Environmental Impact Assessment of a "Sea cucumber aquaculture project in Ilha Terceira, Açores (Portugal)". Report provided to the Aquaculture and Fishery Association from Ilha Terceira. 30th April 2019.

2017-2021

Associate Editor for Marine Fisheries, Aquaculture and Living resources in *Frontiers in Marine Sciences* Journal (<http://loop.frontiersin.org/people/342431/overview>).

2021

Associate Editor of Turkish Journal of Maritime and Marine Sciences (<https://dergipark.org.tr/en/pub/trjmms/board>)

2006-2021

Referee services for more than 60 Journals in ISI including: *Comptes Rendus, Marine Biology, Marine Ecology Progress Series, Molecular Phylogenetics and Evolution, Estuarine Coastal, and Shelf Science, Marine Biology Research, African Journal of Agricultural Research, ICES Journal of Marine Science, Marine Ecology, Molecular Ecology, Diversity & Distributions, Aquatic Biology, PlosOne, Journal of the Marine Biological Association of the United Kingdom, Ocean and Coastal Management, Turkish Journal of Zoology, Pakistan Journal of Zoology, Fisheries Research, Environmental Monitoring and Assessment, Aquaculture Research, Turkish Journal of Fisheries and Aquatic Science, Revista Mexicana de Biodiversidad, Journal of Sea Research, BMC Evolutionary Biology, Aquatic Ecology and Biological Invasions, Ecology and Evolution, North America Journal of Fisheries Management, Aquatic Botany, Philippine Journal of Science, Molecular Biology Reports, Zootaxa, etc.*

2020

Member of evaluation committee of MITAC projects from Canadian Government (www.mitacs.ca/en/programs/accelerate).

Member of evaluation committee of Research grants from Norwegian Research Council.

2008-2021

Member of research panel to Agencia Nacional de Evaluación y Prospectiva (ANEP). Spain.

2019

Member of evaluation committee of Research projects from Plan Estatal Retos I+D A 2018. Projects Tipo A. MINECO. Agencia Nacional de Evaluación y Prospectiva. Spanish Government.

2018

MGW was external reviewer of Fatima Amat' PhD Thesis: "Biological response of invasive fish in a highly regulated Mediterranean river basin". European Ph D. Universidad de Murcia. 2018.

Member of evaluation committee of Research projects from Plan Estatal Retos I+D A 2018. Projects Tipo A. MINECO. Agencia Nacional de Evaluación y Prospectiva. Spanish Government.

2017

Member of evaluation committee of Research projects from Plan Estatal Retos I+D A 2017. Projects Tipo A. MINECO. Agencia Nacional de Evaluación y Prospectiva. Spanish Government.

2016

Member of evaluation committee of Research projects from Plan Estatal Retos I+D B 2016. Projects Tipo B. MINECO. Agencia Nacional de Evaluación y Prospectiva. Spanish Government.

MGW was member of jury evaluating the Mario León Ortega' Thesis: "Ecological studies of Eurasian eagle-owl (*Bubo bubo*) populations in south-eastern Iberia:

territorial occupancy, reproduction, survival, home range and genetic structure.". University of Murcia, Spain. European Degree. 2016.

Member of evaluation committee of Juan de la Cierva' contracts (Formación and Incorporación, 2015) belonging to ANEP (Agencia Nacional de Evaluación y Prospectiva).

MGW was member of jury evaluating the Maria del Mar Soler Hurtado' Thesis: "Conservation of tropical gorgonians in the Eastern Pacific". International PhD. Universidad Internacional Menéndez Pelayo and Museo Nacional de Ciencias Naturales. October 7th 2016.

MGW was member of jury evaluating the CABRERA Prize, offered by Museo Nacional de Ciencias Naturales (CSIC, Madrid, Spain). November 23th 2016.

MGW was member of jury evaluating the Alfonso Suárez Msc Thesis: "Assessing the usefulness of traditional (ossicles) and molecular (barcoding) criteria to the right taxonomic identification of Mediterranean and North-Eastern Atlantic commercial sea cucumbers belonging to the genus *Holothuria*". Universidade do Algarve. December 20th 2016.

2015

MGW was member of jury evaluating the Farahnaz Nissa Solomon' Ph D Thesis: "Connectivity patterns and early life history of the black-faced blenny *Tripterygion delaisi* (Cadenat & Blanche, 1970)". Mares Program, Universidade do Algarve, Portugal. 2015.

MGW was member of jury evaluating the Filipe Henriques Msc Thesis: "Genetic connectivity patterns in *Holothuria mammata* considering different spatial scales". Universidade do Algarve. May 25th 2015.

2014

MGW was external reviewer of Anna Addamo' PhD Thesis: "Systematics and phylogeography of the deep-sea coral *Desmophyllum dianthus* (Anthozoa, Hexacorallia): morphological and molecular evidences)". International PhD. Universidad Autónoma de Madrid. 2014.

2012

MGW was reader of C. Roggatz' Msc Thesis. EMBC Master Thesis: "Evaluation of the nutritional profile of different species of sea cucumbers used for human consumption". CCMAR, Universidade do Algarve.

MGW was member of jury evaluating the P. Casado de Amezua Ayala' PhD Thesis: "Genetic assessment of population structure and connectivity in two endemic Mediterranean corals: *Astroides calycularis* (Pallas, 1766) and *Cladocora caespitosa* (Linnaeus, 1767)". European PhD. Universidad de Alcalá de Henares and Museo Nacional de Ciencias Naturales. July 20 th 2012.

2010

MGW was member of jury evaluating the Patricia Cabezas Padilla' PhD Thesis. "Sistemática e historia evolutiva de la familia Galatheidae (Crustacea: Anomura) en el Pacífico Sur." Universidad Autónoma de Madrid. 2010.

