

CURRICULUM VITAE



DR. MERCEDES WANGÜEMERT

PERSONAL DATA

SURNAME: González-Wangüemert

NAME: Mercedes

BIRTH DATE: 25/08/1972

SEX: Woman

OFFICE ADDRESS: CCMAR, Centro de Ciências do Mar,
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POSITION: Principal Investigator

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ACADEMIC BACKGROUND

2004 Ph.D. University of Murcia, Biological Sciences. Advisors: Dr. Ángel Pérez Ruzafa and Dr. Jose Antonio 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. Ángel Pérez Ruzafa and Dr. Antonio 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.

ACADEMIC POSITIONS

- 2015-** Principal Investigator MARESMA team (MARine RESources MAnagement), IFCT Program (Senior Researcher) CCMAR, Universidade do Algarve
- 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.

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 per 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) and Universidade do Algarve (Portugal) reaching more than 700 hours.

2018-2019

Mid Season Campus, University of Algarve, Faro, Portugal. 10th-16th June. 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).

2016-2017

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).

2015-2016

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

2015-2016

INDICASAT & Universidad de Panamá: Application of molecular tools to sea cucumber fishery management, aquaculture and restocking. 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).

2014-2015

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):

- *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):

- *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):

- *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*. Theoretical 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:

- *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:

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

2001-2002

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

2000-2001

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

1995-1996

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

ADVISOR EXPERIENCE

PhD students

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. Ph.D. student, Nathalie Marquet. 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. 2013-2017. 24th November 2017.
5. Ph.D. student, Jorge Domínguez Godino. Thesis: SEa CUcumbers: new perspectives for Integrated Multi-Trophic Aquaculture. SECUIMTA. CCMAR, Universidade do Algarve & Universidad de Cádiz. 2015-
6. Ph.D. student, Bitá Kalvani. Thesis: The study on induced maturation of female sea cucumber, *Holothuria scabra* (Jaeger, 1833), using radial nerve extract. Gorgan University of Agriculture Sciences and Natural Resources (Iran). 2015-
7. Ph.D. Student, Catarina Miranda Anjos. Thesis: Establishment of a genetic resource bank for restocking management in Portuguese oyster (*Crassostrea angulata*) and Striped-venus clam (*Chamelea gallina*). FCT grant (SFRH/BD/130910/2017). Universidade do Algarve. 2017-

Msc students

1. Kerstin Hübner. Master Thesis (EMBC Program): Comparing traditional mark-recapture method with a the 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 lagoon 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 Withouck. 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.

14. MGW is being co-advisor of the following Master student: João Gonçalves Cruz. Master Thesis (BMB): Assessment of *Holothuria mammata* (Grube, 1840) stocks in Ria Formosa (Southern Portugal) and preliminary insights for its aquaculture. CCMAR, Universidade do Algarve. 2017.

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 with ecology and population genetics of owl (*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 with population genetics of *Pinna nobilis* (Linnaeus, 1758).

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 with 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 seagrass 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, stay 48 hours: Study of the *Holothuria arguinensis* population dynamics in Ria Formosa) and Tiago Braga (Marine Biology Master, University of Algarve, stay 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 *Holothruia 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 behavior 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 of *Holothuria arguinensis* in 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.

Stays of foreign researchers

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 Pavludi (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 Pavludi (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 *H. 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 of 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 Antarctic. 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. Bitā Kalvani (PhD student) from Gorgan University (Iran). Induction to oocytes maturation from extracts of radial nervous 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).

RESEARCH INTERESTS

My research activity can be subdivided in the following lines:

1. Sea cucumber fisheries and aquaculture.
2. Cryptic biodiversity in the genera *Holothuria* (Mediterranean Sea and NE Atlantic Ocean).

3. Application of genetics on the management of marine protected areas and fisheries. Effects of fishing protection on the genetic structure of target species (fishes and sea cucumbers). Connectivity of Marine Protected Areas.
4. Genetic variability at spatial and temporal scales and gene flow between the Mediterranean and Atlantic populations of marine fishes, invertebrates and seagrasses.
5. Genetic adaptation in coastal lagoons, genetic responses to environmental stress (*Elysia timida*, *Cerastoderma glaucum*, *Cerastoderma edule*, *Bursatella leachi*, *Holothuria polii*, *Holothuria arguinensis*, *Holothuria impatiens*, *Pomatochistus marmoratus*, *Diplodus sargus*, *Caulerpa prolifera*, *Cymodocea nodosa* and *Ruppia cirrhosa*).
6. Genetic assessment of restocking in marine ecosystems.

RESEARCH COLLABORATIONS

Most of MGW's lab activities were carried out at University of Murcia (Spain), Université de Perpignan (France), CIBIO (Portugal) and CCMAR (Portugal). Also, MGW has collaborated with other labs:

- Centro do Estudos do Mar, Universidad Federal do Paraná, Pontal do Sul, Brasil (2014-2015);
- IOCAS, Chinese Academy of Sciences, Institute of Oceanology, China (2017-2018);
- University of Amsterdam, Netherlands (2013-2018);
- INDICASAT-AIP, Panamá (2012-2017);
- ARAP, Autoridad de los Recursos Acuáticos de Panamá, Panamá (2017-2018);
- Universidad de La Paz, México (2011-2014);
- University College Dublin, Ireland (2010-2012);
- University of Salford, United Kingdom (2012-2018);
- Australian Institute of Marine Science, Australia (2011-2015);
- Southern Cross University, Australia (2015-2018);
- Reunion University, French Polynesia (2011-2018);

- Ordu University, Turkey (2011-2018);
- 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);
- Universidad Tecnológica de Panamá, Panamá (2016-2018);
- Universidade Federal do Sul da Bahia, Brasil (2015-2018);
- Museo Nacional de Ciencias Naturales, CSIC, Madrid, Spain (2009-2018);
- Laboratorio di Ecologia Marina, National Research Council (CNR), Italy (2008-2013);
- Departament of Sciences, Ichthyology 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);
- 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).

PROJECTS

On going

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).

2015-2018 HOLREMAR. *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 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 Hackrad. Universidade Federal da Paraíba (Brasil), Universidade federal de Pernambuco (Brasil), Centro do Ciências do Mar, Universidade do Algarve (Portugal). **MGW's role: member of team.**

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 Ciencias do Mar (Universidade do Algarve, Portugal). **MGW`s role: Portuguese coordinator.**

International

- 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.
- 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). <http://www.ccmар.ualg.pt/cumfish/>
- 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 - Internacional 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 AEI. *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. Murcia Government. *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 watching of YAIZATUN S.A activities: fattening and greasing of tuna. (Canarian Islands, Spain)*. Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment watching 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 watching 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 watching 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 watching of fish farming activities in Tenerife (Canarian islands, Spain).* Project leader: Pangea Mediterranea S.L. **MGW's role: member of team.**
- 2001** *Environment watching 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. *Valuation of marine habitat that surround 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 initial condition of marine reserve Cape Palos and Hormigas islands (Spain).* Project leader: Dr. Ángel Pérez Ruzafa. **MGW's role: member of team.**

MEMBER IN PROFESSIONAL ASSOCIATIONS

2007- 2018 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).

PUBLICATIONS

Book chapters

1. García-Charton, J.A., **González-Wangüemert, M.**, Marcos, C., Esparza-Alaminos, O., Felix-Hackradt, F., Hackradt, C., Treviño-Oton, J., Perez-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.

2. 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.

3. 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.

4. 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. In: *Fondos del Mediterráneo Español*. Nextcomm S.L. (Eds.). M-11727-2007.

5. 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.

6. 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)

64 papers in ISI, 43 papers with ≤ 4 authors, 23 papers as first author, 23 papers as supervisor/ coordinator of research

Echinoderms

1. Domínguez-Godino, J., **González-Wangüemert, M.** (2018) Does space matter? Optimizing stocking density of *Holothuria arguinensis* and *Holothuria mammata*. *Aquaculture Research*, doi 10.1111/are.13773. IF: 1.56

2. 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*, doi 10.1080/00288330.2018.1480499. IF:0.75

3. 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

4. **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
5. 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
6. Siegenthaler, A., Cánovas, F., **González-Wangüemert, M.** (2017) Outlanders in an unusual habitat: *Holothuria mammata* behaviour on seagrass meadows from Ria Formosa (S Portugal). *Turkish Journal of Fisheries and Aquatic Sciences*, 17: 1035-1042. doi: 10.4194/1303-2712-v17_5_19. IF: 0.566
7. 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
8. Marquet, M., Conand, C., Power, D. M., Canário, A., **González-Wangüemert, M.** (2017) Sea cucumbers, *Holothuria arguinensis* and *H. mammata*, from the southern Iberian Peninsula: variation in reproductive activity between populations from different habitats. *Fisheries Research*, 191: 120-130. IF: 2.19
9. **González-Wangüemert, M.**, Domínguez-Godino, J., Cánovas, F. (2017) New records of sea cucumbers inhabiting Mar Menor coastal lagoon (SE Spain). *Marine Biodiversity*, doi 10.1007/s12526-017-0660-0. IF: 1.646
10. Henriques, F., Serrão, E.A., **González-Wangüemert, M.** (2016) Novel polymorphic microsatellite loci for a new target species, the sea cucumber *Holothuria mammata*. *Biochemical Systematics and Ecology Journal*, 66: 109-113. IF: 0.967.
11. **González-Wangüemert, M.**, Valente, S., Henriques, F., Domínguez-Godino, J., Serrão, E., (2016). Setting preliminary biometric baselines for new target sea

cucumbers species of the NE Atlantic and Mediterranean fisheries. *Fisheries Research*, 179: 57-66. IF: 1.903.

12. Segovia-Viadero, M., Serrão, E.A., Canteras-Jordana, J.C., **González-Wangüemert, M.** (2016). Do hatchery-reared sea urchins pose a threat to genetic diversity in wild populations? *Heredity*, 116, 378-383. IF: 3.805.

13. Roggatz, C., **González-Wangüemert, M.**, Pereira, H., Rodrigues, M., da Silva, Barreira, L., M., Varela, J.Custodio, L. (2016). First report of the nutritional profile and antioxidant potential of *Holothuria arguinensis*, a new resource for aquaculture in Europe. *Natural Product Research Journal*, 30: 2034-2040. IF: 1.057

14. Cánovas, F., Magliozzi, C., Mestre, F., Palazón-Ferrando, J.A., **González-Wangüemert, M.** (2016). ENiRG: R-GRASS interface for efficiently characterizing the ecological niche of species and predicting habitat suitability. *Ecography*, 39: 593-598. IF: 4.77

15. Siegenthaler, A., Cánovas, F., **González-Wangüemert, M.** (2015) Spatial distribution patterns of *Holothuria arguinensis* in the Ria Formosa (Portugal). *Journal of Sea Research*, 102: 33-40. IF: 1.99

16. Maggi, C., **González-Wangüemert, M.** (2015) Genetic differentiation among *Parastichopus regalis* populations from Western Mediterranean Sea: potential effects of its fishery and current connectivity". *Mediterranean Marine Science*, 16/3: 489-501. IF: 1.505

17. Domínguez-Godino, J., Slater, M., Colin, H., **González-Wangüemert, M.** (2015). A new species for sea cucumber ranching and aquaculture: breeding and rearing of *Holothuria arguinensis*. *Aquaculture*, 438: 122-128. IF: 1.88.

18. Valente, S., Serrão E., **González-Wangüemert, M.** (2015) West vs East Mediterranean Sea: origin and genetic differentiation of the sea cucumber *Holothuria polii*. *Marine Ecology*, 36: 485-495. IF: 2.561.

19. Rodrigues, F., Valente, S., **González-Wangüemert, M.** (2015) Genetic diversity across geographical scales in marine coastal ecosystems: *Holothuria*

arguinensis a model species. *Journal of Experimental Marine Biology and Ecology*, 463: 158-167. IF: 2.475

20. **González-Wangüemert, M.**, Valente, S., Aydin, M. (2015) Effects of fishery protection on growth and genetic structure of three target sea cucumber species. *Hydrobiologia*, 743: 65-74. IF: 2.475.

21. **González-Wangüemert, M.**, Aydin, M., Chantal, C. (2014) Assessment of target sea cucumber populations from Aegean Sea (Turkey): first insights for a right management of their fisheries. *Ocean & Coastal Management*, 92: 87-94. IF: 1.769

22. **González-Wangüemert, M. &** Borrero-Pérez, G. (2012) A new record of *Holothuria arguinensis* colonizing the Mediterranean Sea. *Marine Biodiversity Records*, 5: e105. IF: 1.023.

23. Borrero-Pérez, G., **González-Wangüemert, M.**, Marcos, C., Pérez-Ruzafa, A. (2011) Phylogeography of the Atlanto-Mediterranean sea cucumber *Holothuria (Holothuria) mammata*: the combined effects of historical processes and current oceanographical pattern. *Molecular Ecology*, 20 (9): 1964-1975. IF: 6.49.

24. Borrero-Pérez, G., Gómez-Zurita, J., **Gonzalez-Wanguemert, M.**, Marcos, C., Pérez-Ruzafa, A. (2010) Molecular systematic of the genus *Holothuria* in the Mediterranean and Northeastern Atlantic and a molecular clock for the diversification of the *Holothuriidae* (Echinodermata: *Holothuroidea*). *Molecular Phylogenetics and Evolution*, 57: 899-906. IF: 3.889.

25. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C., Pérez-Ruzafa, A. (2010) Genetic diversity and connectivity remain high in *Holothuria polii* (Delle Chiaje 1823) across a coastal lagoon-open sea environmental gradient. *Genetica*, 138: 895-906. IF: 2.358.

26. Borrero-Pérez, G., Pérez-Ruzafa, Á., Marcos, C., **González-Wangüemert, M.** (2009) The taxonomic status of some Atlanto-Mediterranean species in the subgenus *Holothuria* (Echinodermata: *Holothuroidea*: *Holothuriidae*) based on molecular evidence. *Zoological Journal of the Linnean Society*, 157: 51-69. IF: 2.290.

Taxonomy

1. Braga, T., Rodrigues, M., Pereira, H., Varela, J., Barreira, L., **González-Wangüemert, M.**, Custódio, L. (2018). *Bursatella leachi* from Mar Menor as a source of bioactive molecules: preliminary evaluation of the nutritional profile, in vitro biological activities and fatty acids contents. *Journal of Aquatic Food Product Technology*, 26: 1337-1350. doi 10.1080/10498850.2017.1392670.
2. Martínez-Garrido, J., Serrão, E.A., Engelen, A., Cox, C., García-Murillo, P., **González-Wangüemert, M.** (2016). Multi-locus genetic analyses provide insight into speciation and hybridisation in the genus *Ruppia*. *Biological Journal of the Linnean Society*, 117: 177-191. IF: 2.264.
3. **González-Wangüemert, M.**, Pujol J.A. (2016) First record of the Atlantic blue crab *Callinectes sapidus* (Crustacea: Brachyura: Portunidae) in the Segura River mouth (Spain, South-Western Mediterranean Sea). *Turkish Journal of Zoology*, 40: 615-619.
4. León-Ortega, M., **González-Wangüemert, M.** (2015) New highly polymorphic microsatellite markers for the European eagle owl, *Bubo bubo*. *Biochemical Systematics and Ecology*, 63:109-112. IF: 0.967.
5. Martínez-Garrido, J., **González-Wangüemert, M.**, Serrão E. (2014) New highly polymorphic microsatellite markers for the aquatic angiosperm *Ruppia cirrhosa* (Petagna) Grande reveal population diversity and differentiation. *Genome* 57: 57-59. IF: 1.558.
6. Vergara-Chen, C., Windsor, E.A., **González-Wangüemert, M.**, Bermingham, E. (2009). A mitochondrial DNA based phylogeny of weakfish species of the genus *Cynoscion* (Pisces: Sciaenidae). *Molecular Phylogenetics and Evolution*, 53: 602-607. IF: 3.871.
7. Vergara-Chen, C., **González-Wangüemert, M.**, Bermingham, E., D'Croze, L. (2009) Identification of weakfish *Cynoscion* (Gill, 1861) in the Bay of Panama with RFLP markers. *Journal of Fish Biology*, 75: 1101-1107. IF: 1.246.

8. **González-Wangüemert, M.**, Pérez-Ruzafa, Á., García-Charton, J.A., Marcos, C. (2006). Genetic differentiation and gene flow of two sparidae subspecies, *Diplodus sargus sargus* and *Diplodus sargus cadenati*, in Atlantic and SW Mediterranean populations. *Biological Journal of the Linnean Society* 89/4: 705-718. IF: 2.245.

9. **González-Wangüemert, M.**, Pérez-Ruzafa, A., Rosique, M.J., Ortiz, A. (2004). Genetic differentiation in two cryptic species of Ostreidae, *Ostrea edulis* (Linné, 1758) and *Ostreola stentina* (Payraudeau, 1826), in the Mar Menor lagoon (SW Mediterranean). *The Nautilus*, 118: 103-111. IF: 0.500.

Ecology

1. Cánovas-García, F., **González-Wangüemert, M.** (2018) Predation by the snakelock sea anemone *Anemonia sulcata* on the scyphozoan *Pelagia noctiluca* in the Mediterranean Sea. *Cahiers de Biologie Marine*, 59, doi 10.21411/CBM.A.2BA89314. IF: 0.72

2. Wellens, S., Sandrini-Neto, L., **González-Wangüemert, M.**, Lana, P. (2015). Do the crabs *Goniopsis cruentata* and *Ucides cordatus* compete for mangrove propagules? A field-based experimental approach. *Hydrobiologia*, 757:117-128. IF: 2.28

3. **González-Wangüemert, M.** & Vergara-Chen, C. (2014) Environmental variables, habitat discontinuity and life history shaping the genetic structure of *Pomatoschistus marmoratus*. *Helgoland Marine Research*, 68: 357-371. IF: 1.408

4. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C., Pérez-Ruzafa, A. (2013) Small-scale genetic structure of *Cerastoderma glaucum* in a lagoonal environment: potential significance of habitat discontinuity and unstable population dynamics. *Journal of Molluscan Studies*, 79: 230-240. IF: 1.358.

5. **González-Wangüemert, M.**, Cánovas, F., Marcos, C., Pérez-Ruzafa, Á. (2009) Phosphoglucose isomerase variability of *Cerastoderma glaucum* as a model for testing the influence of environmental conditions and dispersal patterns through quantitative ecology approaches. *Biochemical Systematics and Ecology*, 37: 325-333. IF: 1.136.

6. Pérez-Ruzafa, A., Martín, E., Marcos, C., Zamarro, J.M., Stobart, B., Harmelin-Vivien, M., Polti, S., Planes, S., García-Charton, J. A., **González-Wangüemert, M.** (2008). Modelling spatial and temporal scales for spillover and biomass exportation from MPAs and their potential for fisheries enhancement. *Journal for Nature Conservation* 16:234-255. IF: 0.940.

Population Genetics

1. **González-Wangüemert, M.**, Basso, L., Balau, A., Costa, J., Renault, L., Serrão, E.A., Duarte, C.M., Hendriks, I. (2018) Gene pool and connectivity patterns of *Pinna nobilis* in the Balearic Islands (Spain, Western Mediterranean Sea): implications for its conservation through restocking. *Aquatic Conservation: Marine and Freshwater Ecosystems*, doi 10.1002/aqc.2976. IF: 2.988

1. Wesselmann, M., **González-Wangüemert, M.**, Serrão, E.A., Engelen, A., Renault, L., García-March, J.R., Duarte, C.M., Hendriks, I. (2018) Genetic and oceanographic tools reveal high population connectivity and diversity in the endangered pen shell *Pinna nobilis*. *Scientific Reports*, 8: 4770-4781. doi 10.1038/s41598-018-23004-2. IF: 4.122

2. Martínez-Garrido, J., Bermejo, R., Serrão, E., Sánchez-Lizaso, J.L., **González-Wangüemert, M.** (2017) Regional genetic structure in the aquatic macrophyte *Ruppia cirrhosa* suggests dispersal by waterbirds. *Estuaries and Coasts*, 40: 1705-1716. doi 10.1007/s12237-017-0247-9. IF: 2.182

3. Vergara-Chen, C., Rodrigues, F., **González-Wangüemert, M.** (2015) Population genetics of *Cerastoderma edule* in Ria Formosa (South Portugal): the challenge of understanding an intraspecific hotspot of genetic diversity. *Journal of the Marine Biological Association of the United Kingdom*, 95: 371-379. IF: 1.129

4. **González-Wangüemert, M.**, Costa, J., Basso, L., Duarte, C.M., Serrão, E.A., Hendriks, I.E. (2015) Highly polymorphic microsatellite markers for the Mediterranean endemic fan mussel *Pinna nobilis*. *Mediterranean Marine Science*, 16/1: 31-35. IF: 1.734.

5. Casado-Amezua, P., Machordom, A., Bernardo, J., **González-Wangüemert, M.** (2014) New insights on genetic diversity of zooxanthellae in Mediterranean anthozoans. *Symbiosis* 63: 41-46. IF: 1.44.
6. León-Ortega, M., **González- Wangüemert, M.**, Martínez, J.E., Calvo-Sendín, J.F. (2014) Spatial patterns of genetic diversity in Mediterranean Eagle Owl *Bubo bubo* populations. *Ardeola*, 61: 45-62 . IF: 0. 824
7. **González-Wangüemert, M.**, Domínguez-Godino, J., Giménez-Casalduero, F., Serrão E. (2014) Genetic signature of a recent invasion: *Bursatella leachii* (Blainville, 1817) coming to Mar Menor coastal lagoon. *Biochemical and Systematics Ecology* 54: 123-129. IF: 1.170.
8. Hübner, K., **González-Wanguemert, M.**, Serrão E., Diekmann, O. (2013) Genetic polygynandry in the sex-role reversed pipefish *Syngnathus abaster* revealed by microsatellite-based parentage assignment. *Journal of Heredity* 104 (6): 791-797. IF: 2.799.
9. **González-Wangüemert, M.**, Pérez-Ruzafa, A. (2012) In two waters: Contemporary evolution of lagoonal and marine white seabream populations. *Marine Ecology: An Evolutionary Perspective*, 33: 337-349. IF: 2.561.
10. **González-Wangüemert, M.**, Vega-Fernández, T., Pérez-Ruzafa, A., Giacalone, V.M., Badalamenti, F. (2012). Genetic impact of a restocking experiment of white seabream in Sicily (Northwestern Mediterranean Sea). *Journal of Sea Research*, 68: 41-48. IF: 2.683.
11. Giménez-Casalduero, F., Muniain, C., **González-Wangüemert, M.**, Garrote-Moreno, A. (2011) *Elysia timida* (Risso, 1818) three decades of research. *Animal Biodiversity and Conservation* 34 (1): 217-227. IF: 0.196.
12. Kaouche, M., Barhi-Sfar, L., **González-Wangüemert, M.**, Pérez-Ruzafa, Á., Ben Hassine, O.K. (2011) Is the Siculo-Tunisian strait an authentic gene flow barrier for fishes? Studying the case of white seabream along Tunisian coasts. *African Journal of Marine Sciences*, 33 (1): 79-90. IF: 1.520.

13. **González-Wangüemert, M.**, Froufe, E., Pérez-Ruzafa, A., Alexandrino, P. (2011) Phylogeographical history of the white seabream *Diplodus sargus* (Sparidae): Implications for insularity. *Marine Biology Research*,7: 250-260. IF: 1.484.
14. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C., Pérez-Ruzafa, A. (2010) High gene flow promotes the genetic homogeneity of *Pomatoschistus marmoratus* (Risso 1810) from Mar Menor coastal lagoon and adjacent marine waters. *Marine Ecology: An evolutionary Perspective*, 31: 270-275. IF: 1.558.
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15. **González-Wangüemert, M.**, Cánovas, F., Pérez-Ruzafa, A., Marcos, C., Alexandrino, P. (2010). Connectivity patterns inferred from the genetic structure of white seabream (*Diplodus sargus* L.). *Journal of Experimental Marine Biology and Ecology*, 383: 23-31. IF: 2.116.
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17. Pérez-Ruzafa, Á., **González-Wangüemert, M.**, Lenfant, P., Marcos, C., García-Charton, J.A.(2006) Effects of fishing protection on the genetic structure of fish populations. *Biological Conservation* 129: 244-255. IF: 2.854.
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1. **González-Wangüemert, M.**, Roggatz, C., Pereira, H., Rodrigues, M., da Silva, M., Barreira, L., Varela, J., Custódio, L. (in review) A new insight into the influence of the habitat on the biochemical and nutraceutical properties of commercial sea cucumber species from the Mediterranean Sea (SE Spain). *Biochemical Systematics and Ecology Journal* (BSE-S-17-00320)
2. Cánovas, F., Domínguez-Godino, J., **González-Wangüemert, M.** (accepted with review) Short term approach to wildlife epidemiology of skin ulceration disease in the new target species of sea cucumber *Holothuria arguinensis*. *Journal of Diseases of Aquatic Organisms* (DAO-201708002)
3. **González-Wangüemert, M.**, Domínguez-Godino, J., Aydin, M. (in review) 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*
4. Bezerra Oliveira, I., Peres-Gramacho, K., Araújo-Barreto, M., Werner-Hackradt, C., Leão-Feitosa, J.L., Torres, R.A., Padovani-Ferreira, B., **González-Wangüemert, M.**, Félix Hackradt, F. (major revision) Genetic diversity and gene flow of the threatened Brazilian endemic parrotfish *Scarus trispinosus* (Valenciennes, 1840). *Marine Environmental Research* (MERE_2018_29)
5. Domínguez-Godino, J. & **González-Wangüemert, M.** (in review) Let's get together! Integrated multi-trophic aquaculture of new emergent target species. *Marine Environmental Research* (MERE_2018_499)
6. Henriques, F. & **González-Wangüemert, M.** (in review) Are useful the molecular tools in fishery management of sea cucumber? *Holothuria mammata* in the Mediterranean and NE Atlantic regions. *Canadian Journal of Fisheries and Aquatic Sciences* (cjfas-2018-0250)

7. **González-Wangüemert, M.**, Withoutuck, I., Cánovas, F., Domínguez-Godino, J. (in review) The potential role of the sea cucumber *Holothuria polii* as an indicator for anthropogenic organic enrichment in coastal lagoons. *Estuarine, Coastal and Shelf Science* (ECSS_2018_560)

Papers in other journals (not listed in SCI, but with peer review)

1. **González-Wangüemert, M. &** Domínguez-Godino, J. (2018) Assessing rehydration protocols on dried sea cucumber *Holothuria arguinensis*. *Beche-de-Mer Information Bulletin*, 38: 51-54.

2. Cánovas, F., Domínguez-Godino, J., **González-Wangüemert, M.** (2016) Etiology and prevalence of skin disease in *Holothuria arguinensis*. *Frontiers in Marine Science* doi: 10.3389/conf.FMARS.2016.04.00118

3. **González-Wangüemert, M.**, Domínguez-Godino, J. (2016) Sea cucumbers as new marine resource in Europe. *Frontiers in Marine Science* doi: 10.3389/conf.FMARS.2016.04.00112

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5. **González-Wangüemert, M.** (2016) Application of molecular tools on fishery management, aquaculture and restocking of sea cucumbers. *Beche- de- Mer Bulletin*, 36: 99-100.

6. **González-Wangüemert, M.** (2015) CUMFISH workshop: Sea cucumbers: The new resource for a hungry fishery. *Beche- de- Mer Bulletin*, 35: 70-71.

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2. **González-Wangüemert, M.**, Conand, C., Uthicke, S., Borrero-Pérez, G., Erzini, K., Serrão, E. (2011). Sea cucumbers: the new resource for a hungry fishery (CUMFISH). *Ecologi@*, 3: 70-72.

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5. **González-Wangüemert, M.**, Pérez-Ruzafa, A., Rosique, M.J. & Ortiz, A. (2002). Phosphoglucose isomerase variability in two sympatric species of Ostreidae in the coastal lagoon Mar Menor (SE Spain). *Revista de la Academia Canaria de Ciencias*, XIV: 295-303.

5. **González Wangüemert, M.** (2002). La reserva marina de Cabo de Palos-Islas Hormigas. *Eubacteria*, 10: 26-27.

18 communications in National Congresses

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2018

1. 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.

2. 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.

3. 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.

4. 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.

5. **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.

6. **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.

7. **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.

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2. **González-Wangüemert, M.**, Domínguez-Godino, J.A. Rehydration methods of dried sea cucumbers (*Holothuria arguinensis*). LAQUA, 2017. World Aquaculture Society. Poster. Mazatlán, México.
3. Domínguez-Godino, J.A., **González-Wangüemert, M.** Settling the baseline to co-culture the purple sea urchin *Paracentrotus lividus* with the sea cucumber *Holothuria arguinensis*. LAQUA, 2017. World Aquaculture Society. Poster. Mazatlán, México.
4. Domínguez-Godino, J.A., **González-Wangüemert, M.** Let's get together! Assessing co-culture systems of new emergent aquaculture target species. LAQUA, 2017. World Aquaculture Society. Oral communication. Mazatlán, México.
5. Domínguez-Godino, J.A., **González-Wangüemert, M.** Saving time on larvae feed protocols! A fast method for microalgae biomass determination in aquaculture. LAQUA, 2017. World Aquaculture Society. Poster. Mazatlán, México.
6. Vergara-Chen, C., Molina, L., Pino, Y., Roca, K., Guerra, Z., Borrero-Pérez, G., **González-Wangüemert, M.**, Díaz-Ferguson, E. Biological studies of *Holothuria inornata* in the Pacific (Panamá): evolution relationships, genetic diversity and phylogeography. 17^o Congreso Latinoamericano de Ciencias del Mar. 2017. Santa Catarina, Brazil.
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8. Cánovas, F., Domínguez-Godino, J., **González-Wangüemert, M.** Short term approach to epidemiology of skin disease in the new target species for aquaculture

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9. Withouck, I., **González-Wangüemert, M.** Is the sea cucumber, *Holothuria polii*, a potential indicator species for organic enrichment in the sediments of coastal lagoons? Vlaams Instituut voor de Zee. Platform voor marien onderzoek. VLIZ Marine Scientist Day. 2017. Poster. The Neetherlands.

2016

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2. Domínguez-Godino, J., **González-Wangüemert, M.** Does space matter?: Optimizing stocking density of the sea cucumber *Holothuria arguinensis* in tanks. 9th European Conference on Echinoderms. Poster. Poland.

3. Cánovas, F., Reina, V., López-González, P., **González-Wangüemert, M.** "Cool" sea cucumbers! biodiversity of Bransfield Strait in Antarctica. 9th European Conference on Echinoderms. Poster. Poland.

4. **González-Wangüemert, M.**, Mendonça, A., Martins e Neves, M., Berardinelli, P., Anapaz, I., Anapaz, R., Neves, F. New target species of sea cucumber for aquaculture development in Angola. 9th European Conference on Echinoderms. Poster. Poland.

5. Pavloudi, C., Vasileiadou, K., Chatzinikolaou, E., Kotoulas, G., **González-Wangüemert, M.**, Arvanitidis, C. Microbial community interacting with macrobenthic populations in transitional water ecosystems. ECSA 56, Coastal Systems in Transition. Oral communication. Bremen, Germany.

6. **González-Wangüemert, M.**, Domínguez-Godino. Sea cucumbers as new marine resource in Europe. International Meeting on Marine Research. Oral communication. Peniche, Portugal.

7. Cánovas, F., Domínguez-Godino, J., **González-Wangüemert, M.** Etiology and prevalence of skin disease in *Holothuria arguinensis*. International Meeting on Marine Research. Oral communication. Peniche, Portugal.

8. Domínguez-Godino, J., Aydin, M., **González-Wangüemert, M.** Profitability of the new target sea cucumber species from Mediterranean and NE Atlantic: *Holothuria polii*, *H. mammata*, *H. tubulosa* and *H. arguinensis*. International Meeting on Marine Research. Poster. Peniche, Portugal.

9. **González-Wangüemert, M.**, Domínguez-Godino, J., Cánovas, F., Duque-Núñez, N., Conand, C., Purcell, S., Quiang, X. Sea CUcumber as new MARine reSoURce: potential for aquaculture. VIII Conference on Aquaculture in South-Atlantic coasts (VIII Jornadas de Acuicultura en el litoral SurAtlántico). Poster. Cartaya, Spain.

11. Marquet, N., Conand, C., Power, D.M., Canario, A., **González-Wangüemert, M.** Comparison of the reproductive cycle of the sea cucumber *Holothuria arguinensis* at three different habitats in the Algarve coast (Southern Portugal). III Congreso Latinoamericano de Equinodermos. Poster. Costa Rica.

12. Vásquez, O., Roca, K., Pino, Y., Molina, L., Frías, A., De León, M., **González-Wangüemert, M.**, Díaz-Ferguson, E., Vergara-Chen, E. 2016. Genetic diversity and population structure of *Centropomus armatus* (Gill, 1863) in Pacific (Panamá). XVI del Congreso Nacional de Ciencia y Tecnología, 2016, 19-22 th October. Oral communication. Ciudad de Panamá, Panamá.

13. Vergara-Chen, C., Pino, Y., Roca, K., Molina, L., Guerra, Z., Borrero-Pérez, G., **González-Wangüemert, M.**, Díaz-Ferguson, E. 2016. Gene flow and demographic history of sea cucumber *Holothuria inornata* in Pacific (Panamá). XVI del Congreso Nacional de Ciencia y Tecnología, 2016, 19-22 th October. Oral communication. Ciudad de Panamá, Panamá.

2015

1. Domínguez-Godino, J.A., **González-Wangüemert, M.** The sea cucumber *Holothuria arguinensis*, as new potential species for aquaculture in Europe. Aquaculture Europe 2015. Oral communication. Rotterdam, Netherlands.

2. **González-Wangüemert, M.**, Segovia, M., Serrão, E.A. Assessment of potential genetic risks from *Paracentrotus lividus* restocking. Aquaculture Europe 2015. Oral communication. Rotterdam, Netherlands.

3. Domínguez-Godino, J.A., **González-Wangüemert, M.** Effects of density on *Holothuria arguinensis*' aquaculture. XV Congreso Nacional de Acuicultura y I Congreso Ibérico de Acuicultura. Poster. Huelva, Spain.

2014

1. Domínguez-Godino, J.A., Slater, M., Serrão, E. A., **González-Wangüemert, M.** Seagrass as new potential food resource for sea cucumber aquaculture. Mares Conference on Marine Ecosystems Health and Conservation. Poster. Olhão, Portugal.

2. Marquet, N., Hubbard, P., Canario, A., **González-Wangüemert, M.** The reproductive cycle of the sea cucumber *Holothuria arguinensis* in the Algarve (Southern Portugal). Mares Conference on Marine Ecosystems Health and Conservation. Poster. Olhão, Portugal.

3. **González-Wangüemert, M.**, Aydin, M., Maggi, C., Valente, S., Conand, C. Sea cucumbers in the Mediterranean Sea: effects of their fishery on growth and genetic structure. Mares Conference on Marine Ecosystems Health and Conservation. Poster. Olhão, Portugal.

4. Valente, S., Borrero-Pérez, G., Serrão, E.A., **González-Wangüemert, M.** Genetic patterns and growth parameters of two new target sea cucumber species of the Mediterranean Sea fishery. Mares Conference on Marine Ecosystems Health and Conservation. Poster. Olhão, Portugal.

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6. Martínez-Garrido, J., Engelen, A., Serrão, E.A., **González-Wangüemert, M.** Improving the knowledge of *Ruppia sp.*: microsatellite markers as a useful tool to species differentiation. Mares Conference on Marine Ecosystems Health and Conservation. Poster. Olhão, Portugal.
7. Domínguez-Godino, J., Custodio, L., Pereira, O., Reis, J., **González-Wangüemert, M.** Sea cucumbers: new perspectives for integrated multi-trophic aquaculture (SECUIMTA). Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.
8. Magliozzi, C., **González-Wangüemert, M.**, Cánovas, F. The analysis of the ecological niche of *Holothuria arguinensis* for conservation purposes. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.
9. Olaya, J., Erzini, K., **González-Wangüemert, M.** Ecology of *Holothuria arguinensis*: estimation of population parameters and relation with substrate types. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.
10. Marquet, N., Conand, C., Canario, A., Hubbard, P., **González-Wangüemert, M.** The reproductive cycle of the sea cucumber *Holothuria arguinensis* in the Algarve (Southern Portugal): preliminary results. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.
11. Braga, T., Silva, M., Valente, S., Rodrigues, F., Siegenthaler, A., Serrão, E., **González-Wangüermert, M.** CUMFISH, get involved as a volunteer. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.
12. Bossers, S., **Gonzalez-Wanguemert, M.**, Dominguez, J., Engelen, A., Cucio, C., Muyzer, G. The sea cucumber microbiome. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.
13. Custodio, L., Roggatz, C., **González-Wangüemert, M.**, Pereira, H., Barreira, L., João-Rodrigues, M., Moreira da Silva, M., Varela, J. Nutritional profile and antioxidant activity of sea cucumbers from the Mediterranean Sea and North-

Eastern Atlantic. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.

14. Maggi, C., **González-Wangüemert, M.** Population and genetic structure of *Parastichopus regalis* (Cuvier, 1817) from the Mediterranean Sea and its commensal *Carapus acus* (Brünnich, 1768). Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.

15. Henriques, F., Serrão, E., **González-Wangüemert, M.** Genetic connectivity patterns in *Holothuria mammata* considering different spatial scales. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.

16. Valente, S., Serrão, E., **González-Wangüemert, M.** West versus east Mediterranean Sea: origin and genetic differentiation of the sea cucumber *Holothuria polii*. Workshop Sea cucumbers: the new resource for a hungry fishery (CUMFISH). Oral communication. Faro, Portugal.

2013

1. Valente, S., Sen, O., Ciftci, Y., Aydin, M., Serrão, E., **González-Wangüemert, M.** Assessing the effects of human selection through fishery on sea cucumber genetic structure and population dynamics. 14th Congress of the European Society for Evolutionary Biology. Poster. Lisbon, Portugal.

2. Valente, S., Serrão, E., **González-Wangüemert, M.** West vs East Mediterranean: origin and genetic differentiation of the sea cucumber *Holothuria polii*. 14th Congress of the European Society for Evolutionary Biology. Poster. Lisbon, Portugal.

3. Vasileiadou, K., Pavloudi, C., Chatzinikolaou, E., **González-Wangüemert, M.**, Tsikopoulou, I., Kotoulas, G., Arvanitidis, C. Genetic diversity patterns of macrobenthic populations from lagoonal ecosystems. 14th Congress of the European Society for Evolutionary Biology. Poster. Lisbon, Portugal.

4. Custodio, L., Braga, T., **González-Wangüemert, M.**, Rodrigues, M.J., Barreira, L., Varela, J. Antioxidant and in vitro neuroprotective potential of the sea hare

Bursatella leachii. XIV International Symposium on Marine Natural Products. Oral communication. La Toja, Spain.

5. Hübner, K., **González-Wangüemert, M.**, Diekmann, O., Erzini, K., Serrão, E. Genetic polygynandry in the sex-role reversed pipefish *Syngnathus abaster* revealed by microsatellite-based parentage assignment. 2nd Syngnathid Biology International Symposium. Poster. Faro, Portugal.

6. Hübner, K., **González-Wangüemert, M.**, Diekmann, O., Erzini, K., Serrão, E. Comparing mark-recapture methods with a genetic approach based on parentage assignment to estimate size population of Syngnathids. 2nd Syngnathid Biology International Symposium. Poster. Faro, Portugal.

2012

1. Vergara-Chen, C., **González-Wangüemert, M.** Assessing the population genetic structure in estuaries and coastal lagoons: implications for coastal management. I Marine Sciences Congress. International Marine Science University of Panamá. Oral communication. Ciudad de Panamá, Panamá.

2. Segovia-Viadero, M., **González-Wangüemert, M.**, Jordana-Canteras, J.C., Serrão, E. Assessing the genetic impact of sea urchin restocking. ASSEMBLE Conference, Access to Marine Resources - Generating Knowledge for Science and Society. Oral communication. Olhão, Portugal.

3. Chatzinikolaou, E., Pavludi, C., Vasileiadou, A., **González-Wangüemert, M.** Effects of stressful environmental factors in lagoonal ecosystems on marine microbial and invertebrate populations. ASSEMBLE Conference, Access to Marine Resources - Generating Knowledge for Science and Society. Oral communication. Olhão, Portugal.

4. **González-Wangüemert, M.**, Conand, C., Uthicke, S., Borrero-Pérez, G., Erzini, K., Aydin, M., Serrão, E. Sea cucumbers: the new resource for a hungry fishery (CUMFISH project). 14th International Echinoderm Conference. Oral communication. Brussels, Belgium.

5. Roggatz, C.C., Custódio, L., **González-Wangüemert, M.**, Barreira, L., Pereira, H., Varela, J. Nutritional value and fatty acid profile of five sea cucumber species from the Mediterranean Sea and Northeast Atlantic Ocean. 14th International Echinoderm Conference. Poster. Brussels, Belgium.

6. Roggatz, C.C., Custódio, L., **González-Wangüemert, M.**, Barreira, L., Pereira, H., Varela, J. Nutritional profile and antioxidant properties of the sea cucumber *Holothuria arguinensis*. 14th International Echinoderm Conference. Oral communication. Brussels, Belgium.

7. Segovia-Viadero, M. & **González-Wangüemert, M.** Assessing the genetic impact of sea urchin restocking. 14th International Echinoderm Conference. Poster. Brussels, Belgium.

8. **González-Wangüemert, M.**, Domínguez Godino, J., Giménez Casalduero, F., Serrão, E. Genetic signature of a recent invasion: *Bursatella leachii* coming to Mar Menor coastal lagoon. XVII Iberian Symposium of Marine Biology Studies. Poster. País Vasco, Spain.

9. **González-Wangüemert, M.**, Cánovas, F., Martínez-Garrido, J., Serrão, E. Molecular ecology and climate change: adaptive differentiation of *Cymodocea nodosa* populations through environmental clines. XVII Iberian Symposium of Marine Biology Studies. Poster. País Vasco, Spain.

10. Martínez-Garrido, J., **González-Wangüemert, M.**, Serrão, E. Conservation and management of *Ruppia cirrhosa* genetic resources from south of Iberian Peninsula. XVII Iberian Symposium of Marine Biology Studies. Poster. País Vasco, Spain.

2011

1. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C., Pérez-Ruzafa, A. Factors that shape the evolution of population differentiation in a coastal fish (*Pomatoschistus marmoratus*) along a lagoonal-marine transition. III Congress of Spanish Society of Evolution Biology (SESBE). Madrid, Spain.

2. Borrero-Pérez, G., **González-Wangüemert, M.**, Pérez-Ruzafa, A. La familia Holothuriidae de la región Atlántico-Mediterránea: taxonomía y relaciones

evolutivas. I Congreso Latinoamericano de Equinodermos. Puerto Madryn, Argentina.

3. Benvenuto C., **González-Wangüemert M.**, Mariani S. Geographical patterns of reproductive life-history plasticity in a sex-changing fish. 46th European Marine Biology Symposium. Rovinj, Croatia.

4. **González-Wangüemert, M.**, Martínez-Garrido, J., Cánovas, F., Vergara-Chen, C., Serrao, E. In two waters: contemporary evolution of lagoon and marine populations. World Conference on Marine Biodiversity. Poster. Aberdeen, Scotland.

5. **González-Wangüemert, M.** White seabream, what is telling us? World Conference on Marine Biodiversity. Poster. Aberdeen, Scotland.

6. Martínez-Garrido, J., **González-Wangüemert, M.**, Cánovas, F., Serrao, E. Jardines olvidados bajo el mar: evaluación del estado de conservación de las fanerógamas *Ruppia cirrhosa* Petagna (Grande) y *Zostera noltii* (Hornemann) mediante su estudio genético. III Congreso Nacional de Biodiversidad. Oral communication. Granada, Spain.

7. León-Ortega, M., **González-Wangüemert, M.**, Pérez, E., Lacalle, J.A., Martínez, J.E., Calvo-Sendín, J.F. Qué nos ululan los Búhos Reales de la Región de Murcia? Patrones de diversidad genética. III Congreso Nacional de Biodiversidad. Oral communication. Granada, Spain.

2010

1. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C., Pérez-Ruzafa, A. Molecular ecology of lagoon populations: history of *Pomatochistus marmoratus* (Pisces, Gobiidae) in Mar Menor coastal lagoon. XVI Simposio Iberico de Estudios de Biología Marina. Oral communication. Alicante, Spain.

2. Vergara-Chen, C., Aguirre, W.E., **González-Wangüemert, M.**, Bermingham, E. Phylogenetic and phylogeographic analysis of genus *Cynoscion* (Pisces: Scianidae) using mt and nuclear DNA. XVI Simposio Iberico de Estudios de Biología Marina. Oral communication. Alicante, Spain.

3. Muniain, C., Giménez-Casalduero, F., **González-Wangüemert, M.**, Garrote-Moreno, A. Review about *Elysia timida* (Risso, 1818). VI Simposio Iberico de Estudios de Biología Marina. Poster. Alicante, Spain.

4. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C. & Pérez-Ruzafa, A. High genetic diversity and absence of population differentiation in coastal lagoon environments: the case of the cockle *Cerastoderma glaucum* (Bivalvia: Cardiidae). Congresso Português de Malacologia 2010. Oral communication. Faro, Portugal.

2009

1. Vergara-Chen, C., **González-Wangüemert, M.**, Marcos, C. & Pérez-Ruzafa, A. Do the environmental conditions shape the genetic structure of local populations in a Mediterranean coastal lagoon? 4th European Conference on Coastal Lagoon Research. Poster. Montpellier, France.

2. Vergara-Chen, C., **González-Wangüemert, M.**, Pérez-Ruzafa, Á. & Marcos, C. Influence of lagoon environment on genetic structure of a recent colonizer of Mar Menor coastal lagoon (*Holothuria polii*) and a typical lagoon species (*Pomatoschistus marmoratus*). 3^a ALBAN Conference. Oral Communication. Porto, Portugal.

3. Kaouache, M., Bahri-Sfar, L., **González-Wangüemert, M.**, Pérez-Ruzafa, Á., Ben Hassinne, O. Étude de la structure génétique des populations du sar commun *Diplodus sargus* des côtes tunisiennes. 4^e Rencontres de l'Ichtyologie en France. Oral communication. Paris, France.

4. **González Wangüemert, M.**, Pérez-Ruzafa, A., Marcos, C., & Alexandrino, P. Understanding the biogeography of the atlantic and mediterranean islands using mitochondrial and nuclear markers. A case of study: the white seabream (*Diplodus sargus*). Evolutionary islands 150 years after Darwin. Poster. Leiden, Holanda.

5. Borrero-Pérez GB., **González-Wangüemert, M.** Pérez-Ruzafa A., Marcos-Diego C. Genetic diversity and population structure of the sea cucumber *Holothuria mammata* in the Atlanto-Mediterranean region. Evolutionary islands 150 years after Darwin. Poster. Leiden, Holanda.

2008

1. Vergara-Chen, C., **González Wangüemert, M.**, Marcos, C., & Pérez-Ruzafa, A. Divergencia poblacional adaptativa de *Holothuria polii* en lagunas costeras: implicaciones genéticas. IV Congreso de la Naturaleza de la Región de Murcia. Oral communication. Murcia, España.
2. Borrero-Pérez, G., Pérez-Ruzafa, A. Marcos, C. & **González Wangüemert, M.** Estatus taxonómico de algunas especies del subgénero *Holothuria* (*Echinodermata: Holothuroidea: Holothuriidae*) con base en datos moleculares. IV Congreso de la Naturaleza de la Región de Murcia. Oral communication. Murcia, España.

2007

1. Borrero-Pérez, G., Pérez-Ruzafa, A. & **González Wangüemert, M.** Taxonomic status of *Holothuria* subgenus species (*Holothuria: Holothuriidae*) from the Mediterranean Sea and Macaronesian Islands using mt-DNA. I Congreso de la Sociedad Española de Biología Evolutiva. Poster. Tarragona, Spain.

2006

González-Wangüemert, M., Cánovas, F., Pérez-Ruzafa, Á., Marcos, C. Aplicación de los modelos aditivos generalizados para establecer relaciones entre la composición genética de *Cerastoderma glaucum* y la variabilidad ambiental de la laguna costera del Mar Menor (SE de España). II Congreso Iberico de Ecología. Poster. II Congreso Iberico de Ecología. Lisboa, Portugal.

2. **González Wangüemert, M.**, Alexandrino, P., Froufe, E., Marcos, C. & Pérez-Ruzafa. Estructura genética de las poblaciones de *Diplodus sargus* a ambos lados del Estrecho de Gibraltar. Flujos genéticos y procesos de especiación. XIV Simposio Iberico de Estudios de Biología Marina. Oral communication. Barcelona, Spain.

2005

1. **González-Wangüemert, M.**, Pérez-Ruzafa, Á. Giménez-Casaldueiro, F. Is the Mar Menor coastal lagoon a ecological barrier for (*Elysia timida*)?. Evidence of a

genetic differentiation in the sacoglossan populations. IV International Congress of the European Malacological Societies. Poster. Naples, Italy.

2. **González-Wangüemert, M.**, Pérez-Ruzafa, Á. & Marcos, C. Genetic selection at Mar Menor coastal lagoon (SW Mediterranean). II International Conference "European lagoons and their watersheds: function and biodiversity". Oral communication. Klaipėda, Lituania.

3. **González-Wangüemert, M.**, Pérez-Ruzafa, Á., García-Charton, J.A. & Marcos, C. Spatial patterns in the genetic diversity of *Diplodus sargus* in North Atlantic and Western Mediterranean populations. ASLO Summer Meeting. A Pilgrimage Through Global Aquatic Sciences. Oral communication. Santiago de Compostela, Spain.

2004

1. **González-Wangüemert, M.**, Giménez-Casalduero, F. & Pérez-Ruzafa, Á. Genetic variability of *Elysia timida* (Risso, 1818) populations in SW Mediterranean and Mar Menor coastal lagoon. III Congreso de la Naturaleza de Murcia. Oral communication. Murcia, Spain.

2. García Charton, J.A., **González-Wangüemert, M.**, Pérez-Ruzafa, Á. & Marcos Diego, C. 15 years of follow-up of Cape Palos-Hormigas' reef fishes. III Congreso de la Naturaleza de Murcia. Oral communication. Murcia, Spain.

3. Herrero Pérez, A., Espejo Cayuela, C., Polti, S., García Charton, J.A., **González-Wangüemert, M.**, Pérez-Ruzafa, Á. & Marcos Diego, C. Impact of diving activities in Cape Palos-Hormigas Islands marine reserve. III Congreso de la Naturaleza de Murcia. Oral communication. Murcia, Spain.

2003

1. **González-Wangüemert, M.**, Pérez-Ruzafa, Á., Marcos, C. & García-Charton, J.A. Effects of fishing protection on the genetic structure of target fish populations. II International Congress of Marine Science and Technology. Oceans III Millenium. Poster. 2003. Alicante, Spain.

2001

1. **González-Wangüemert, M.**, García-Charton, J.A., Marcos, C. & Pérez-Ruzafa, Á. Effects of the absence of fishing in marine protected areas on reproductive strategy of *Diplodus sargus* (Linnaeus, 1758). Poster. 36th European Marine Biology Symposium. Menorca, Spain.

2. **González-Wangüemert, M.**, Marcos, C. & Pérez-Ruzafa, Á. Complex effects on genetic structure of populations of *Diplodus sargus* (Linnaeus, 1758) in marine areas protection. Poster. 36th European Marine Biology Symposium. Menorca, Spain.

1998

1. **González-Wangüemert, M.**, Ortiz, A. & Pérez-Ruzafa, Á. *PGI* variability at *Cardium glaucum* (L.) populations from Mar Menor coastal lagoon (Spain) and its relationship to environmental. Carvoeiro, Portugal.

1997

1. **González-Wangüemert, M.**, Rosique, M.J., Pérez-Ruzafa, A. & Ortiz, A. Genetic divergence at *PGI* locus between two *Ostrea* sympatric species in Mar Menor coastal lagoon (Spain). VI congreso Nacional de Acuicultura. Murcia, Spain.

2. **González-Wangüemert, M.**, Ortiz, A. & Pérez-Ruzafa, Á. *PGI* variability in *Cardium glaucum* (L.) at Mar Menor coastal lagoon (SE Spain) and its relation to environmental parameters. II Congreso de la Naturaleza de Murcia estudio y Conservación de los Ecosistemas Semiáridos y las zonas costeras. Murcia, Spain.

1996

1. Pérez-Ruzafa, A., Aliaga, V., Barcala, E., García-Charton, J., **González-Wangüemert, M.**, Gutiérrez, J.M., Marcos, C & Salas, F. Benthic fauna of Escombreras Bay (Murcia, SE Spain). IX Simposio Ibérico de Estudios del Bentos Marino. Oral communication. Madrid, Spain.

2. Pérez-Ruzafa, A., Aliaga, V., Barcala, E., García-Charton, J., **González-Wangüemert, M.**, Gutiérrez, J.M., Marcos, C., Pérez-Ruzafa, I. & Salas, F.

Influence of thermal pollution on benthic algae of Escombreras Bay (Murcia, SE Spain). Oral communication. Madrid, Spain.

STAYS IN RECOGNIZED CENTRES

1997. Laboratório de Praias Arenosas do Centro do Estudos do Mar, Universidad 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.

OTHERS MERITS

Organization of scientific dissemination activities

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". University of Algarve, 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, 23 th February 2017: "Organismos que habitam a Ria" ("Marine organisms inhabiting Ria Formosa"). Students (14-16 years old) from several High Schols 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, 18 th February 2016: "Organismos que habitam a Ria" ("Marine organisms inhabiting

Ria Formosa"). Students (14-16 years old) from several High Schols 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, 5 th 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 internship for teenagers in CCMAR). Activity "Sea cucumbers ecology and aquaculture" (field sampling, DNA extractions, PCRs, visual census, sea cucumber thermography). 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

2018

1. Interview Antena 1 (RTP, Portugal): Problemática das pescas de pepinos de mar em Portugal e desenvolvimento da sua aquacultura.

2. Outreach: "Guatizamar, Adiós Lanzarote". Paper published in BioesferaDigital 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 notícias), 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 notícias), 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 UAAlg" 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.ccmarmar.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://folhadodomingo.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 and seminars

- 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.

Selected courses

- 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

2017-2018

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

2006-2018

Referee services for 30 Journals included 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.

2008-2018

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

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.

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.