

Curriculum Vitae

Dr. Giuseppe De Marco



Research Fellow (RTdA). BIO/06 (Comparative Anatomy and Cytology)

Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences

University of Messina - ITALY

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Education

2018 - 2019 **12 CFU Course** at the University of Messina

2017 - 2018 **24 CFU Course** at University of Messina.

2015 - 2018 **PhD** in "Applied Biology and Experimental Medicine" XXXI cycle
Curriculum: Environmental Science: "Environmental toxicology by assessing biological responses after wastewater and sediment recovery actions in mesocosm scale experiments, and *in vitro* techniques"
Supervisor: Prof. Mauceri Angela Rita; Co-Supervisor: Dr. Ernesto Alfaro-Moreno. at University of Messina. Degree Mark: "Ottimo" (Optimal)

2011 - 2013 **Master Degree in Biology** at University of Messina Thesis: "Adapting Molecular Responses of *Mytilus galloprovincialis* in extreme Hypoxic condition" Supervisor: Prof. Mauceri Angela Rita Degree Mark: 110/110 cum Laude

2007 - 2011 **Bachelor's degree in Biological Science** at University of Messina Thesis: "Genetic variation: molecular mechanisms and impact on microbial evolution" Supervisor: Prof. Guglielmino Salvatore. Degree Mark: 110/110 cum Laude.

Scientific highlights

1. Evaluation of pesticides in fish by enzymatic activities.

2. Use of embryotoxicity assay in fishes and aquatic invertebrates.
3. Evaluation of the efficiency of recovery actions by using mussels as model species in mesocosm-scale experiments.
4. Use of intestinal human cell line to evaluate sub-chronic effects of microplastics.
5. Use of multi-biomarker approach (histology, immunohistochemistry, NMR-based metabolomics, enzymatic and molecular analyses) on mussels to assess environmental pollution

Professional Experiences

- 2021 to date **Research Fellow** within the Project PON “Ricerca e Innovazione” 2014-2020 “Innovativi approcci “-omici” in mitilicoltura: effetti biologici del cambiamento climatico, dell’impatto antropico e di strategie di recupero green” (Coordinator Professor Maisano).
- 2020-2021 **Scholarship** within the Project “FISH PATH NET” PO FEAMP 2.56 (Coordinator Professor Marino).
- 2018 **Visiting PhD-student** (4 months) at Swedish Toxicology Sciences Research Center (SWETOX) Södertälje Svezia. Research activity “Evaluation of Nanoparticles Toxicology”. Supervisor: Dr. Ernesto Alfaro-Moreno .
- 2011-2013 **Formative Internship** within the **M.Sc.** - Laboratory of Biomonitoring and Ecocytotoxicology, University of Messina, IT.
- 2010 **Formative Internship** within the **B.Sc.** – at the Hospital Papardo (Messina) about clinical microbiological analysis.

Workshops and Courses

- 2017 **Workshop** about “An introduction to systematic reviews and meta-analysis for environmental sciences” - “Successful applications of scientific evidence in resources conservation and management” - at DiSTeM **University of Palermo**. Palermo (**Italy**), 3th-5th May 2017.
- 2017 **Workshop** about “Systematic reviews and meta-analysis, techniques and tools in practice” at DiSTeM **University of Palermo**. Palermo (**Italy**), 3th-5th May 2017.
- 2014 **Course** “Seminario di Citologia e Citogenetica: Aspettative e prospettive per un biologo” at Reggio Calabria 10th april 2014 organized by **ONB** .
- 2014 **Course** “La Ricerca Scientifica Oggi: come produrla e come proteggerla” at Reggio Calabria 21th-22th February 2014 organized by **ONB** .

2012/2013 **Course** “Dlgs 81/08 e problematiche sulla sicurezza” at **Università degli Studi di Messina**.

Committee Membership

2020 to date Member of the Evaluation Committee for the course “Cytology and Histology” (S.S.D. BIO/06).

Didactic activities

2020/2021 **Seminar assignment** within the course “Cellular Biological Mechanism” (S.S.D. BIO/06) of the **M.Sc.** in ““Biologia della salute, delle tecnologie applicate e della nutrizione” at University of Messina by Prof Angela Rita Mauceri”.

2020/2021 **Seminar assignment** within the course “Biotechnologies in Cytotoxicology” (S.S.D.BIO/06) of the M.Sc. in Biology - University of Messina, by Prof. Maria Maisano .

2019 to date **Connoisseur of the subject** for the course “Cytology and Histology” (S.S.D. BIO/06).

2020 **Tutor PLS Biology** in the Department of Chemical, Biological, Pharmaceutical and Environmental Sciences at the University of Messina. From 12-05-2020 to 30-09-2020. Coordinator Prof. Maria Teresa Sciortino.

2018 **Informative Tutoring** activity within the project for the “Enhancement of knowledge to access the University courses” in Biology for high school students, at the Struttura Interdipartimentale di Raccordo (SIR), Faculty of Sciences and Technologies, University of Messina, with a task of n°30 hours.

2017 **Specialized didactic tutoring** activity within the project for the “Enhancement of knowledge to access the University courses” in Biology for high school students, at the Struttura Interdipartimentale di Raccordo (SIR), Faculty of Sciences and Technologies, University of Messina, with a task of n°90 hours.

2017 **Teaching activity** at the High Schools “Leonardo Da Vinci” at Reggio Calabria and “Nostro Repaci” at Villa San Giovanni (RC) for the “Enhancement of knowledge to access the University courses”.

- 2017 **Teaching activity** within the Summer School for the enhancement of Biology -Centro Orientamento e Placement (COP), University of Messina.
- 2016 **Specialized didactic tutoring** activity within the project for the “Enhancement of knowledge to access the University courses” in Biology for high school students, at the Struttura Interdipartimentale di Raccordo (SIR), Faculty of Sciences and Technologies, University of Messina, with a task of n°60 hours.
- 2016 **Specialized didactic tutoring** activity within the project for the “Enhancement of Scientific knowledge and the spread of the scientific culture in the high schools” at the University of Messina with a task of n° 60 hours .
- 2016 **Teaching activity** within the Summer School for the enhancement of Biology -Centro Orientamento e Placement (COP), University of Messina.

Student research supervising/tutoring activities

- 2021 **Co-Tutor** of Dr. Salvatore Lo Giudice for the thesis of **M.Sc.** in Biology
- 2021 **Co-Tutor** of Dr. Valeria Tomasi for the thesis of **M.Sc.** in Biology.
- 2017 – to date **Co-tutor and Supervision** of research activities of **M.Sc** students in Biology.

Educational activities

- 2021 **Speaker** at the “Sea in SHELL” “European Researchers’ Night 2021” 24th September 2021 Messina Italy.
- 2021 **Representative** for the B.Sc “Scienze Biologiche” during the School guidance event “UNIME OPEN DAY 2021 Digital Edition” 18-20 may 2021. Responsible Prof Concetta De Stefano.
- 2020 **Representative** for the B.Sc “Scienze Biologiche” during the School guidance event “Aster Orienta Sicilia 2020 Edizione di Catania” 15-17 december 2020. Responsible Prof Concetta De Stefano.
- 2020 **Representative** for the B.Sc “Scienze Biologiche” during the School guidance event “Fiera Online Orienta Sicilia – ASTER Sicilia” 10-12 november 2020. Responsible Prof Concetta De Stefano.
- 2020 **Representative** for the B.Sc “Scienze Biologiche” during the School guidance event “UNIME OPEN DAY 2020 Digital Edition” 21-22 July 2020. Responsible Prof Concetta De Stefano.

- 2018 **Activities support** at “ISM 2018 RASSEGNA INTERNAZIONALE DELLE COMPETENZE”6 -8 november. Organizer Prof Concetta De Stefano.
- 2016 **Representative for** the Scientific Area during School guidance event XI Salone dell’Orientamento” at Reggio Calabria Italy 10-12 November. Responsible Prof Concetta De Stefano.

Participation to Research Projects

2019 - 2021 “FISH PATH NET - Enhancement of the Sicilian Ichthyopathological Centres”.
PO FEAMP 2014/2020.

2015 - 2016 “Systems Biology in the study of xenobiotic effects on marine organisms for evaluation of the environmental health status: biotechnological applications for potential recovery”. **MIUR, prot. 2010ARBLT7_001/008.**

On-going scientific collaborations

- 2020 – to date **Dott. Aasma Noureen – Virtual University of Pakistan, PK**
 “Biological toxicity of nanoparticles on fish species”.
- 2019 – to date **Prof. Mohamed Banni – University of Monastir, TU**
 “Biological effects of microplastics on marine organisms”.
- 2019 – to date **Dott. Caroline Vignet - EAWAG, CH**
 “Use of histology to detect alteration in zebrafish *Danio rerio* larvae after exposure to imidacloprid, a insecticide neonicotinoid”.
- 2019 – to date **Prof. Jérôme Cachot - EPOC, UMR CNRS, University of Bordeaux, FR**
 “Use of environmental metabolomics approaches to detect alteration in Japanese medaka larvae after exposure to imidacloprid, a insecticide neonicotinoid”.
- 2018 – to date **Dott. Ernesto Alfaro-Romero- International Iberian Nanotechnology Laboratory.PT** “Evaluation of tight junction disruption induced particles on airway epithelial cells using an automatized imaging method”.

Academic Awards and Distinctions

- 2021 **First Muna Summer School Award** for his contribution “Environmental toxicology: new approaches to assess the biological responses in aquatic organism and in vitro human cells” September 13th – 16th, 2021. (International)

- 2017 **Travel Grant** for “XIII PhD Student Meeting in Ecology and Aquatic System Science”. Palermo 3-5 May 2017 (National)
- 2014 **Qualification** to exercise the profession of Biologist - University of Messina, ITA.

Society Memberships

- 2017 – to date Società Italiana di Ecologia (**S.It.E.**).
- 2022 to date Società Italiana di Biologia Sperimentale (**SIBS**)
- 2022 -to date Organization **Marevivo**

Reviewer Activity

- 2021 – to date Frontiers in Molecular Biosciences (**FMOLB** ; IF = 5.246); Comparative Biochemistry and Physiology Part D: Genomics and Proteomics (**CBPD** ; IF = 2.674).

Complementary Qualifications

- Computer Skills Optimal knowledge of OS Windows; MS Office (Word, Excel, PowerPoint, Access, Teams Outlook); Adobe Acrobat; Adobe Photoshop; Browser (Internet Explorer, Safari, Firefox, Google Chrome, Opera). Ecdl Core Ecdl standard Ecdl IT- Security Ecdl Health. Good knowledge of several software (GelDoc, GraphPad Prism, Mendeley,Chenomx NMR Suite, Axio Vision Release 4.5, MATLAB, DaVinci Resolve.
- Technical Skills Histochemical investigation (i.e. H/E, AB/PAS,); Immunohistochemical and Immunocytochemical analyses; Molecular analyses; (RNA extraction, PCR, RT-PCR, qPCR, Western Blot) Spectrophotometric and spectrofluorimetric analyses for enzymatic activities; Genotoxic analyses (Micronuclei and Comet Assays); Metabolomic analysis (metabolite extraction, NMR spectrum acquisition, identification and quantification of metabolites), Cell Culture Techniques. uni- and multi-variate statistical analysis (Student’s t-test, Mann-Whitney U, ANOVA, PCA).
- Languages Courses Fluent speaker of Italian (native language) and English (B2) Esol International (spoken, reading, writing and listening) certificate.
- Other Since the 2014/2015 academic year, Dr. De Marco has been collaborating with Professors of “Cytology and Histology” “Development Biology” conducting practical lab classes and tutoring students from B.Sc. in Biological Sciences, from M.Sc. in Biology.

List of Publications

SCOPUS (S): H-index: 7; Citazioni: 235

Peer-reviewed manuscripts

17. Parrino V, Tardiolo G, **De Marco G**, Lo Paro G, Vitalone B. M., Zumbo A., D'Alessandro E. Fazio F. 2022 The monitoring of marine ecosystems of the Milazzo gulf and the Marinello nature reserve in Sicily: the potential role of *Coris julis* as pesticides bioindicator. *Cahiers De Biologie Marine* **Accepted**. [IF =0.759]

16. Missawi O, Venditti M, Cappello T, Zitouni N, **De Marco G**, Boughattas I, Bousserhine N, Belbekhouche S, Minucci S, Maisano M, Banni M. 2022 Autophagic event and metabolomic disorders unveil cellular toxicity of environmental microplastics on marine polychaete *Hediste diversicolor*. *Environmental pollution*, 302, 119106.. <https://doi.org/10.1016/j.envpol.2022.119106> [IF =8.071] [cit. 0 in S]

15. Parisi C, **De Marco G**¹, Labar S, Hasnaoui M, Grieco G, Caserta L, Inglese S, Vangone R, Madonna A, Alwany M, Hentati O, Guerriero G. 2022 Biodiversity Studies for Sustainable Lagoon: Thermophilic and Tropical Fish Species vs. Endemic Commercial Species at Mellah Lagoon (Mediterranean, Algeria). *Water*; 14(4):635. <https://doi.org/10.3390/w14040635> [IF =3.103 OA] [cit. 0 in S]

14. **De Marco G**, Conti GO, Giannetto A., Cappello T, Galati M, Iaria C, Pulvirenti E, Capparucci F, Mauceri A, Ferrante M, Maisano M. 2022 Embryotoxicity of polystyrene microplastics in zebrafish *Danio rerio*. *Environmental research*, 208, 112552. <https://doi.org/10.1016/j.envres.2021.112552> [IF =6.498] [cit. 0 in S]

13. Caliani I, **De Marco G**¹, Cappello T, Giannetto A., Mancini G., Ancora S., Maisano M., Parrino V., Cappello S., Bianchi N., Oliva S., Luciano A., Mauceri A., Leonzio C., Fasulo S. 2022 Assessment of the effectiveness of a novel BioFilm-Membrane BioReactor oil-polluted wastewater treatment technology by applying biomarkers in the mussel *Mytilus galloprovincialis*. *Aquat Toxicol.* 2022;243:106059. doi:10.1016/j.aquatox.2021.106059 [IF =4.964] [cit. 0 in S]

12. **De Marco G**, Brandão F, Pereira P, Pacheco M, Cappello T. 2022 Organ-Specific Metabolome Deciphering Cell Pathways to Cope with Mercury in Wild Fish (Golden Grey Mullet *Chelon auratus*). *Animals*; 12(1):79. doi.org/10.3390/ani12010079 [IF =2.752 OA] [cit. 1 in S]

11. Parrino V., Costa G., Giannetto A, **De Marco G**, Cammilleri G, Piccione G, Fazio F (2021) Trace elements (Al, Cd, Cr, Cu, Fe, Mn, Ni, Pb and Zn) in *Mytilus galloprovincialis* and *Tapes decussatus* from Faro and Ganzirri Lakes (Sicily, Italy): Flow cytometry applied for hemocytes analysis. *Journal of Trace Elements in Medicine and Biology*, 68 126870 (IF =3.849) <https://doi.org/10.1016/j.jtemb.2021.126870> [cit. 2 in S]

10. Visalli G., Facciola A., Pruiti Ciarello, M.; **De Marco G.**, Maisano M., Di Pietro A. 2021 Acute and Sub-Chronic Effects of Microplastics (3 and 10 µm) on the Human Intestinal Cells HT-29. *International Journal of Environmental Research and Public Health* 18, 5833.

(IF: 3.390 OA) doi.org/10.3390/ijerph18115833 [cit. 1 in S]

9 Parrino V., **De Marco G**^{1*}, Minutoli R., Lo Paro G., Giannetto A., Cappello T., De Plano L.M., Cecchini S., Fazio F., 2021 Effects of pesticides on *Chelon labrosus* (Risso, 1827) evaluated by enzymatic activities along the north eastern Sicilian coastlines (Italy). *The European Zoological Journal*, 88: 540-548. [IF = 1.747; OA] doi.org/10.1080/24750263.2021.1905090 [cit. 3 in S]

8 Missawi O., Bousserhine N., Zitouni N., Maisano M., Boughattas I., **De Marco G.**, Cappello T., Belbekhouche S., Guerrouache M., Alphonse V., Banni M., 2021. Uptake, accumulation and associated cellular alterations of environmental samples of microplastics in the seaworm *Hediste diversicolor*. *Journal of Hazardous Materials*, 406: 124287. [IF = 10.588] doi.org/10.1016/j.jhazmat.2020.124287 [cit. 4 in S]

7 Cappello T., **De Marco G.**, Oliveri Conti G., Giannetto A., Ferrante M., Mauceri A., Maisano M., 2021. Time-dependent metabolic disorders induced by short-term exposure to polystyrene microplastics in the Mediterranean mussel *Mytilus galloprovincialis*. *Ecotoxicology and Environmental Safety*, 209: 111780. [IF = 6.291; OA] doi.org/10.1016/j.ecoenv.2020.111780 [cit. 14 in S]

6 Vignet C., Cappello T., Fu Q., Lajoie K., **De Marco G.**, Clerandeanu C., Mottaz H., Maisano M., Hollender J., Schirmer K., Cachot J., 2019. Imidacloprid induces adverse effects on fish early life stages that are more severe in Japanese medaka (*Oryzias latipes*) than in zebrafish (*Danio rerio*). *Chemosphere*, 225: 470-478. [IF = 7.086] doi.org/10.1016/j.chemosphere.2019.03.002 [cit. 37 in S]

5 Giannetto A., Cappello T., Oliva S., Parrino V., **De Marco G.**, Fasulo S., Mauceri A., Maisano M., 2018. Copper oxide nanoparticles induce the transcriptional modulation of oxidative stress-related genes in *Arbacia lixula* embryos. *Aquatic Toxicology*, 201: 187-197. [IF = 4.964] doi.org/10.1016/j.aquatox.2018.06.010 [cit. 16 in S]

4 Cappello T., Giannetto A., Parrino V., **De Marco G.**, Mauceri A., Maisano M., 2018. Food safety using NMR-based metabolomics: assessment of the Atlantic bluefin tuna, *Thunnus thynnus*, from the Mediterranean Sea. *Food and Chemical Toxicology*, 115: 391-397. [IF = 6.023] doi.org/10.1016/j.fct.2018.03.038 [cit. 39 in S]

3 Cappello T., Giannetto A., Parrino V., Maisano M., Oliva S., **De Marco G.**, Guerriero G., Mauceri A., Fasulo S., 2018. Baseline levels of metabolites in different tissues of mussel *Mytilus galloprovincialis* (Bivalvia: Mytilidae). *Comparative Biochemistry and Physiology – Part D*, 26: 32-39. [IF = 2.674] doi.org/10.1016/j.cbd.2018.03.005 [cit. 39 in S]

2 Giannetto A., Maisano M., Cappello T., Oliva S., Parrino V., Natalotto A., **De Marco G.**, Fasulo S., 2017. Effects of oxygen availability on oxidative stress biomarkers in the Mediterranean mussel *Mytilus galloprovincialis*. *Marine Biotechnology*, 19(6): 614-626. [IF = 3.619] doi.org/10.1007/s10126-017-9780-6 [cit. 33 in S]

1 Giannetto A., Maisano M., Cappello T., Oliva S., Parrino V., Natalotto A., **De Marco G.**, Barberi C., Romeo O., Mauceri A., Fasulo S., 2015. Hypoxia-inducible factor α and Hif-prolyl hydroxylase characterization and gene expression in short-time air-exposed *Mytilus galloprovincialis*. *Marine Biotechnology*, 17(6): 768-781. [IF = 3.619] doi.org/10.1007/s10126-015-9655-7 [cit. 46 in S]

Proceedings

4. Maisano M., Giannetto A., Cappello T., **De Marco G.**, Capparucci F., Marino F., Oliveri Conti G., Zuccarello P., Ferrante M., Oliva S., Parrino V., Mauceri A., Fasulo S. Embryotoxic effects of polystyrene microplastics in zebrafish (*Danio rerio*). *European Journal of Histochemistry* 63 (Suppl. 2), 19. 65th GEI Congress 2019 [IF =3.188] doi.org/10.4081/ejh.2019.3052

3. Alfaro-Moreno E., Engel M., **De Marco G.**, Kos V. M. Evaluation of tight junction disruption induced particles on airway epithelial cells using an automatized imaging method. *Toxicology Letters*, 295, S208. EUROTOX 2018 [IF = 4.372] doi.org/10.1016/j.toxlet.2018.06.910

2. Giannetto A., Cappello T., Oliva S., Parrino V., **De Marco G.**, Fasulo S., Mauceri A., Maisano M. Exposure to copper oxide nanoparticles (CuO NPs) modulates the oxidative stress related genes in *Arbacia lixula* embryos. *European Journal of Histochemistry* 62 (Suppl. 1), 21-22. 64th GEI Congress 2018 [IF =3.188] doi.org/10.4081/ejh.2019.2951

1. Maisano M., Cappello T., Vignet C., Lajoie K., Fu Q., **De Marco G.**, Mottaz H., Clerandeanu C., Hollender J., Cachot J., Schirmer K., 2017. A comparative study on the effects of imidacloprid in zebrafish and Japanese medaka. *European Journal of Histochemistry* 61 (Suppl. 1), 17. 63rd GEI Congress 2017 [IF = 3.188] doi.org/10.4081/ejh.2017.2814

Scientific Communications in International Congresses

4. **De Marco G**, Giannetto A, Cappello T, Oliveri Conti G, Galati M, Pulvirenti E, Ferrante M., Mauceri A, Maisano M. Accumulation of polystyrene microplastics and embryotoxic effects in zebrafish *Danio rerio*. PLASTIC: FROM THE ENVIRONMENT TO HUMAN HEALTH 4th to 6th of November 2021 Sousse -Tunisia

3. **De Marco G**. Environmental toxicology: new Approaches to assess the biological Responses in aquatic Organisms and in vitro human cells. Young researchers' short oral presentations First MUNA SUMMER SCHOOL September 13th – 16th, 2021

2. Alfaro-Moreno E., Engel M., **De Marco G.**, Kos V. M. Evaluation of tight junction disruption induced particles on airway epithelial cells using an automatized imaging method. EUROTOX 2018 2–5 September 2018. Brussels, Belgium

1. Cappello T., Maisano M., Giannetto A., Parrino V., Natalotto A., Oliva S., Cappello S., Mancini G., **De Marco G.**, Mauceri A., Fasulo S. Evaluation of recovery actions applied on petrochemical polluted waters and sediments using marine mussels in mesocosm-scale experiments. 24th International Sustainable Development Research Society Conference (ISDRS 2018), 57; Messina (Italy), 13-15 June 2018.

Scientific Communications in National Congresses (AC-N)

9. Gervasi C, Natale S, Di Paola D , Peritore A F , Zammuto V , De Benedetto G , **De Marco G** , Iaria C , Capparrucci F. ZFET as a viable tool for experimental biology. 94° congresso SIBS. Torino 6-9 aprile 2022

8. **De Marco G.**, Afsa S., Galati M., ben Mansour H. Cappello T. International Cooperation Italy-Tunisia: Ecocytotoxicological studies to enhance management actions for reducing pharmaceuticals in the Mediterranean area. VII Congresso CUCS. Napoli 21-23 Aprile 2022

7. **De Marco G**, Galati M, Oliveri Conti G, Maisano M, Cappello T Metabolic effects of polystyrene microplastics in marine mussels after short-term exposure. 94° congresso SIBS. Torino 6-9 aprile 2022

6. **De Marco G.**, Afsa S., Galati M., Cappello T. Time-dependent biological impact of environmentally realistic doses of caffeine vs caffeine-salicylic acid mixtures on *Mytilus galloprovincialis*. 94° congresso SIBS. Torino 6-9 aprile 2022

5. Maisano M., Giannetto A., Cappello T., **De Marco, G.**, Capparrucci F., Marino F., Oliveri Conti G., Zuccarello P., Ferrante M., Oliva S., Parrino V., Mauceri A., Fasulo S. Embryotoxic effects of polystyrene microplastics in zebrafish (*Danio rerio*). 65° Convegno del Gruppo Embriologico Italiano (GEI) – Società Italiana di Biologia dello Sviluppo e della Cellula; Ancona, 24-27 June 2019.

4. Giannetto A., Cappello T., Oliva S., Parrino V., **De Marco, G.**, Fasulo S., Mauceri A., Maisano M. Exposure to copper oxide nanoparticles (CuO NPs) modulates the oxidative stress related genes in *Arbacia lixula* embryos. 64° Convegno del Gruppo Embriologico Italiano (GEI), 21-22; L'Aquila, 11-14 June 2018.

3. Maisano M., Cappello T., Vignet C., Lajoie K., Fu Q., **De Marco G.**, Mottaz H., Clerandeu C., Hollender J., Cachot J., Schirmer K. A comparative study on the effects of imidacloprid in zebrafish and Japanese medaka. 63° Convegno del Gruppo Embriologico Italiano (GEI), 17; Roma, 12-15 June 2017.

2. **De Marco G.** and Fasulo S. Mesocosm-scale experiments to measure the effects on *Mytilus galloprovincialis* (Lamarck, 1819) after remediation actions on petrochemical-polluted waters and sediments. XIII incontro dei dottorandi in ecologia e scienze dei sistemi acquatici. Palermo 3-5 May 2017

1 Cappello T., Maisano M., Giannetto A., Parrino V., Oliva S., Cappello S., Mancini G., **De Marco G.**, Mauceri A., and Fasulo S. Environmental Metabolomics as a valuable tool in evaluating the effects of petrochemical contamination and recovery strategies on marine mussels. 1° Congresso congiunto Società Italiana di CV – Giuseppe De Marco

Ecologia (S.It.E.), Unione Zoologica Italiana (U.Z.I.), Società Italiana di Biogeografia (S.I.B.), 7; Milano, 30 August – 02 September 2016.