

CURRICULUM VITAE ET STUDIORUM

Francesca Garaventa, PhD



Professional Experience

From 2020 – Senior Researcher at CNR - Institute for the study of Anthropic impacts and environment (CNR-IAS)

2011-2020 Researcher at CNR - Institute for the study of Anthropic impacts and Sustainability – IAS (formerly, CNR-Ismar)

From 2021: Coordinator of the “Ecotoxicology and Environmental Monitoring” Research Group at CNR-IAS Genova.

2017-2020: Coordinator of the "Anthropic Impacts" research group at CNR-IAS Genova.

2015-2017: Coordinator of the "Anthropic Impacts" research group at Ismar Venezia and Genova.

From 2000 to 2011 Researcher (temporary contracts and fellowships) at Institute of Marine Science, CNR in Genoa

Training

2005 PhD in Environmental Sciences, held at the CNR-ISMAR, University of Genoa. Title: "Biomonitoring of environmental contamination by TBT (Tributyltin) in the Mediterranean

2000 Degree in Biological Sciences, University of Genoa on 4/10/2000 with a score of 102/110. Experimental thesis titled "Study of the life cycle of *Hydroides elegans* Haswell 1883 (*Polichaeta Serpuloidea*) under laboratory conditions, aimed at toxicological and antifouling tests", carried out at the Institute for Marine Corrosion of Metals (today ISMAR GE)

Main Courses:

2009- CoMe Va ... the research? - Course on Research Management and Promotion. CNR

2003 Detecting Multivariate Changes in Biological Assemblages: Experimental Design and Data Analysis. University of Lecce. Teachers: MJ Anderson, L. Benedetti-Cecchi, KR Clarke and PJ Sommerfield.

2002 Polychaetes as Biological and Ecological Models - From taxonomy to applied research. University of Lecce, SZN and CONISMA

2001 International Course of Experimental Ecology" Design and Analysis of Ecological Experiments "- University of Nuoro. Teachers: Underwood A.J. and Chapman M.G.

Scientific Activity

I have been researching about the following topics for about 18 years:

- Emerging contaminants, particularly, micro and nano plastic: presence, distribution and effects
- Ecological and ecotoxicological interdisciplinary studies aimed at technological applications
- Environmental monitoring through the standardization of ecotoxicological tests and the use of biomarkers
- Evaluation of the effects of marine pollution on marine organisms
- Development of biosensors and ecotoxicological kits
- Field efficacy tests and laboratory of experimental biocides and environmentally friendly antifouling paints
- Development of antifouling systems based on environmental impact
- Development of integrated systems for the management and optimization of the use of biocides in industrial cooling systems
- Development of integrated systems for the effectiveness and the ecocompatibility of Ballast Water Treatment -Systems in accordance with the IMO Convention
- Ecology of benthic systems of artificial hard substrate
- Interpretation and support for the application of national and international environmental regulations

Bibliometric indexes

Source: Google Scholar

Citations: 2861- H-index: 29 - Hi10-index 47

The aforementioned scientific production, given the topics dealt with, has always been accompanied by a strong interaction with the industrial world aimed at technology transfer.

It is evident from my involvement in patent activities and in many contracts of collaboration with companies of various sizes (SMEs and multinationals). Finally, the knowledge acquired in the scientific field and the awareness of the needs of the industrial world have been realized, in recent years, in my participation as an expert in the work of the Marine Environment Protection Committee (MEPC) of the International Maritime Organization (IMO) which is the United Nations agency dedicated to the promotion of maritime cooperation between member countries and to ensuring the safety of navigation and the protection of the marine environment.

Responsibility of Scientific Project:

2024-2027 Horizon EU – INTEGRANO - MULTIDIMENSIONAL INTEGRATED QUANTITATIVE APPROACH TO ASSESS SAFETY AND SUSTAINABILITY OF NANOMATERIALS IN REAL CASE LIFE CYCLE SCENARIOS USING NANOSPECIFIC IMPACT CATEGORIES. Call: HORIZON-CL4-2023-RESILIENCE-01, Grant Agreement N. 101138414. CNR Unit leader

2022- 2024 SUNRISE “Le ‘soluzioni basate sulla natura’ per la conservazione della biodiversità marina e lo sviluppo sostenibile in Mar Ligure “Call: Bando Fondazione Compagnia di San Paolo - Call: Simbiosi-Insieme alla natura per il futuro del pianeta. CNR Unit leader

2022-2024 The Water Code. Bando 2021 per la Concessione di contributi a Iniziative di sensibilizzazione ed educazione alla cittadinanza globale proposte da Enti Territoriali e Organizzazioni della Società Civile e soggetti senza finalità di lucro. Agenzia italiana per la Cooperazione allo sviluppo. CNR Unit leader

2022 – 2025. RAISE – Robotics and AI for Socioeconomic Empowerment. Spoke 4 “Smart and sustainable ports”. Strengthening of research structures and creation of R&D "innovation ecosystems", set up of "territorial leaders in R&D" — to be funded under the National Recovery and Resilience Plan (NRRP), Mission 4, Component 2 Investment 1.4, funded from the European Union - NextGenerationEU. Role: CNR leader Spoke 4

2022 - 2025 - National Biodiversity Future Center – NBFC. ACTIVITY 1: Assess and mitigate impacts and threats to marine biodiversity. Spoke 2. ACTION 2: Zero pollution strategy for biodiversity protection. Strengthening of research structures and creation of R&D "national champions" on some Key Enabling Technologies to be funded under the National Recovery and Resilience Plan (NRRP), Mission 4 Component 2 Investment 1.4 funded from the European Union - NextGenerationEU. Role WP leader and CNR-IAS Ge PI.

2021 – Blu di Genova. (Call Comune di Genova “Blue New Deal” – Fondazione CARIGE). CNR PI

2020-2022 ‘SNAPSHOT - Synoptic Assessment of Human Pressures on key Mediterranean Hot Spots’. Role: Ligurian Region activities Coordinator.

2020- 2023: RESPONSE, Toward a risk-based assessment of microplastic pollution in marine ecosystems. JPIOcean Call 2019. Role: WP Leader and CNR-IAS Unit PI

2020-2022 - BIOS - Materiali BIOMimetici Superidrofobici. PIANO NAZIONALE DELLA RICERCA MILITARE (PNRM) a.2018.186. Role: CNR-IAS Unit PI

2019-2021 - SIAP- Biocorrosione marina: studio delle interazioni tra sistemi di protezione attiva e passiva (pitture antivegetative biocide free) di nuova generazione. Programma Operativo Regione Liguria Fondo Sociale Europeo POR FSE 2014-2020, Asse 3 "Istruzione e Formazione" Delibera della Giunta Regionale n. 278 del 04/04/2019. Role: Scientific Coordinator.

2019-2022 SHAREMED “Sharing and enhancing capabilities to address environmental threats in Mediterranean Sea” Interreg Mediterranean.

Role: IAS Scientific Coordinator.

-2014- today. Contract NALCO ITALIANA srl - Monitoring of macrofouling and optimization of chemical treatments in industrial plants. Funding: Private Subject. Role: PI. Aims: Execution of a biological monitoring protocol for the optimization of the antimicrofouling treatment at the ERG of Priolo Gargallo (Siracusa).

- 2012-2016. Ritmare SP3_WP2_AZ2_UO2- Innovative tools to evaluate emerging contaminants effects on biological communities. Funding: MIUR (Flag Project) Role: Operative Unit Principal Investigator. Aims: The project focused on some of the substances listed in the EU list of "priority substances", taking into consideration recent suggestions for inclusion in the list of further new compounds. The activities carried out in the project focused not only on the effects of chemical pollutants and environmental matrices, but also on the study of emerging pollutants of a microbiological type, with potential consequences on human health.

-2012-2016. Ritmare SP1_WP2_AZ1_UO1- Marine technologies: Pollutants and emissions abatement - Funding: MIUR (Flag Project). Ruolo: Operative Unit Principal Investigator. Aims: The analysis of the toxicity associated to the gaseous emissions of marine engines.

-11/01/2016 - 30/04/2016. "Environmental status of the Venice Lagoon and elements for the sustainable planning of port activities". Funding: Venice Port Authority - CORILA/ISMAR. Role: Principal Investigator Activity 2 - Ecotoxicological evaluations (on marine sediments).

Scientific project participation:

Participation to more than 50 Research projects with different funding sources (EU, NATO, National and Private):

Selection of the most representative projects:

2022 – 2025. RAISE – Robotics and AI for Socioeconomic Empowerment. Spoke 3 “Environmental Caring and Protection Technologies, towards a Zero Emission Environment”. Strengthening of research structures and creation of R&D "innovation ecosystems", set up of "territorial leaders in R&D" — to be funded under the National Recovery and Resilience Plan (NRRP), Mission 4, Component 2 Investment 1.4, funded from the European Union - NextGenerationEU. Role: co-leader del WP 1

2022-2024 Attività di indagine (campionamento, analisi, elaborazione dati e modellizzazione) mirate alla comprensione dell'impatto della contaminazione storica sull'ambiente marino attuale antistante l'area di Rosignano Solvay e delle dinamiche biogeochimiche che regolano la mobilità, tossicità, biodisponibilità del mercurio nell'area studio. Contratto di servizi tra SOLVAY CHIMICA ITALIA S.P.A. e CNR-IAS. Prot CNR 003806 19/9/22

-POR FESR 2014-2020 S1 Ricerca ed innovazione – Azione 1.5.1 - Sostegno alle infrastrutture di ricerca. Progetto - BLUELABNET. Role: CNR-IAS Unit

- POR FESR 2014-2020 - Asse 1 - Azione 1.2.4 - Poli di Ricerca e Innovazione. Supporto allarealizzazione di progetti complessi di attività di ricerca e sviluppo per le imprese aggregate aiPoli di Ricerca ed Innovazione - Bando 2020. Progetto SINBAD 2.0. SINBAD 2.0 Servizi per la sicurezza della navigazione

-2019 PRIN 2017: Exploring the fate of Mediterranean microplastics: from distribution pathways to biological effects-EMME (grant agreement no. 2017WERYZP)

-2018 SOS-Piattaforme & Impatti Off-Shore. Implementation of an integrated forecasting system for the dispersion of hydrocarbons at sea and environmental monitoring at the platforms located in the Adriatic and in the Sicily channel-MATTM.

-2017–21 H2020 CLAIM, Cleaning Litter by developing and Applying Innovative Methods in european seas. EC H2020 CLAIM project H2020-BG492 2016-2017 (grant agreement no. 774586). Role: Task leader

-2017-20 H2020 DUPLEXWASTE Lean Duplex Stainless Steel for Urban and Industrial Waste Water. EU.

-2017-19 PNRA POLICY POLar fish Cytogenetic diversity". MIUR (PNRA) PNRA16_00281

-2016-18 EPHEMARE Ecotoxicological effects of microplastics in marine ecosystems. EU JPI-Oceans and MIUR <https://www.jpi-oceans.eu/archive/ephemare.html>

-2016-18 PNRA DISMAS Informazioni biologiche ed ecologiche sull'Antarctic toothfish, DISsostichus MAwsoni, nel Mare di Ross". MIUR (PNRA)

-2014-16 PNRA RAISE Ricerche integrate sulla ecologia dell'Antarctic Silverfish nel MarE di Ross". MIUR (PNRA)

-2013-16 PNRA IMAGES Radiazione adattativa dei pesci antartici Mappatura in situ di tratti evolutivamente rilevanti nel genoma dei Notothenioidei. MIUR (PNRA)

-2013-16 BALMAS BALLAST WATER MANAGEMENT SYSTEM FOR ADRIATIC SEA PROTECTION. Adriatic IPA

-2013-17 NEXOS Next generation, Cost-effective, Compact, Multifunctional Web Enabled Ocean Sensor Systems Empowering Marine, Maritime and Fisheries Management. EU-FP7

-2011-15 JERICO Towards a Joint European Research Infrastructure Network for Coastal Observatories. EU-FP7

-2013-16 CCNS Corrosion Control for Navy Ships - CCNS. European Defence Agency

-2012-16 Ritmare SP1_WP2_AZ1_UO11- Ballast Water Treatment. MIUR (Progetti Bandiera)

-2012-16 Ritmare SP1_WP5_AZ4_UO07 - Study and development of innovative antifouling paints. MIUR (Progetti Bandiera)

-2004-07 EA-BIOFILMS (Electrochemically Active Biofilms) EU Project (NEST-STREP)

-2005-09 ECOMOS Ecological compatibility of the ships to "motorways of the sea". MIUR (FIRB)

-2010-12 SINCO MEC KOLOR SpA, Optimization of a totally new Eco-compatible Antifouling Technology (TAE). Regione Liguria (POR-FESR 2007-2013)

-2011-13 ACG srl, ECOCELL-BWT Critical investigations on the effectiveness and eco-compatibility of a new ballast water treatment technology". Regione Liguria (POR-FESR 2007-2013)

-2008-09 - Definition of methodological protocols for the conduction of acute toxicity studies on marine organisms DPN/6D/2006/13298. MATTM

-2007- ARPAL - Ecotoxicological tests for the supplementary characterization plan for the coastal marine area included in the perimeter of the SIN Cogoletto-Stoppani. ARPAL

-2006-07 Toxicological analysis for a series of samples of marine sediments within the project: "impact of off-shore mining on biodiversity of benthic populations in Ionian sea". DiSTeBA - Università del Salento.

-2005-07 Tecnologie antifouling ecosostenibili per il settore navale (TAECO). EU PRAI-FESR

-2004-05 TAXA Research Program, Testing of toxicological tests on marine organisms for the purposes of the applicability of D. D. 23.12.2002". MATTM – ICRAM Prot. 1658/04 -ISMAR-CNR. Partecipazione UO (Att. Dir. Ismar, Prot 0001942 del 02 03 17)

-2005-06 INTERVENTO N.72 - CAMPO SPERIMENTALE IN MARE": Validation and testing of ecotoxicological tests for marine sediments, Veneto Region.

-2003-05 Biomonitoring of Environmental Contamination of TBT in Mediterranean Coasts. NATO CLG

Technical/scientific Organisation, Committee and Scientific Agreements

-2021-2024 – Technical-scientific collaboration agreement between CNR-IAS e Costa Edutainment SpA. Scientific Coordinator

-2021 – 2023 OPERATIONAL CONVENTION FOR FIELD AND LABORATORY RESEARCH ACTIVITIES between CNR-IAS and ARPAL. Scientific Coordinator

- From 2022 – CNR representative at The European Marine Board Communication Panel (EMBCP)

- From 2018 Member of the Technical Board at the Italian Ministry for Environment, Land and Sea Protection to support the activities of the national implementation of the IMO "Ballast Water Management Convention".

-From 2015 Advisor in the Italian Delegation to the Marine Environment Protection Committee (MEPC) of the IMO, London. MEPC 68-69-70-71-72-73 and related working groups (Ballast Water WG and Marine Litter WG) - Decreto Direttoriale prot. DEC/DPNM/0001919 del 30-01-2017 e prot. DEC/DPNM/0006541 del 29/03/2018,

-2017 Member of the ISMAR team to support the Bluemed CSA project, 'Coordination and Support Action' funded under Horizon2020-SC2 programming to support the BLUEMED policy initiative "Research and Innovation Initiative for Blue Growth and Jobs in the Mediterranean area" . (mail CNR-ISMAR Scientific Technical Secretariat of 31 January 2017 20:57). (Att.: Dir. Ismar, Prot 0001938 of 02 03 17)

-2016 Member, by invitation, of the Working Group created by the US Navy National Research Laboratory on the theme: "Emerging Approaches for Quantifying Biofouling on Ships".

-2016 Italian Delegate at ICES/IOC/IMO Working Group on Ballast and Other Ship Vectors

-2015 EMBRC-IT Technical Committee (CTE). Activities for carrying out the preliminary investigation phase necessary for the definition of the agreement for the establishment of the JRU of EMBRC-IT

Scientific Cruises/Expedition

20/06-11/07 2021 - Difendiamo il Mare. Microplastic sampling and awareness Campaign in collaboration with Greenpeace Italy. Role: CNR Scientific Coordinator

16/07-28/07 2020 – Difendiamo il Mare. Microplastic sampling and awareness Campaign in collaboration with Greenpeace Italy. Role: CNR Scientific Coordinator

18/5-08/06 2019 - MAYDAY SOS Plastica. Microplastic sampling and awareness Campaign in collaboration with Greenpeace Italy. Role: CNR Scientific Coordinator

-12-17/06/2019 – M/N ROCCOUNO – Adriatic Sea. SOS Piattaforme Project. Activity: Water, sediment and biota sampling around Off-shore oil platforms for ecotoxicological characterization.

-09/24-28/2018 - Salme Research vessel, Tallinn University of Technology- Estonia, Gulf of Finland. CLAIM Project. Water, sediment and biota sampling for microplastic analysis.

-05/13-19/2018 – M/N ROCCOUNO – Adriatic Sea. SOS Piattaforme Project. Activity: Water, sediment and biota sampling around Off-shore oil platforms for ecotoxicological characterization.

-10/3-13/2017 – RaceforWater mixed solar-hydrogen-kite-powered vessel – Guadalupe – Ephemare Project. Water, sediment and biota sampling for microplastic analysis.

-07/08-17/2017 – Rainbow Warrior Vessel, Greenpeace International – Croatia (Ancona-Dubrovnik) - Ephemare Project. Water, sediment and biota sampling for microplastic analysis. Role: CNR Scientific Coordinator

-06/24-30/2017 – Rainbow Warrior Vessel, Greenpeace International – Italy (Genoa-Naples) - Ephemare Project. Water, sediment and biota sampling for microplastic analysis. Role: CNR Scientific Coordinator

-07/08-18/1997 – Italian National Research Council Research Vessel M/N Urania del CNR – Tyrrhenian Sea. Activity: Planktonic sampling and Marine Litter Monitoring.

Technology transfer

Patent

2005- Product Type: Bioactive Molecule. Title: Antineoplastic activity of a polymeric molecule isolated from a Mediterranean marine porifer. Authors: Albini A, Faimali F, Falugi C, Gallus L, Garaventa F, Paleari L, Russo P, Trombino S, Wrubl C. Type of patent: National. Patent number: Mi2005a00534

Participation in Company:

Partner in ALVIM Srl Biofouling Monitoring Technologies and Services. <http://www.alvimcleantech.com/>

National and international acknowledgments

- 2023 – Donnambinete Award 2023 - award dedicated to women's commitment to science and environmental outreach that aims to actively contribute to breaking down gender stereotypes. 5 Terreacademy.

- 2015. CNR - Short Term Mobility Program fellowship 2015 - "Marine Organisms through Ballast Water: International Guidelines and solutions to manage the associated Risk". World Maritime University, Malmö - Sweden.

- 2006. CNR - Short Term Mobility Program fellowship "Enzymatic activity and imposex level in Hexaplex trunculus as biomarkers of TBT contamination in the Mediterranean Sea" at the Marine Biology Station of Pirano -Slovenia.

- 2005. 6 months CNR- NATO Grant "Bio-monitoring of TBT pollution along the coast of the Istria (Croatia)", at the Marine Biology Station of Pirano - Slovenia.

- 2001. Scholarship PhD in Environmental Sciences (Science of the Sea) XVII cycle. University of Genoa.

Training and Outreach activities

From 2013 Manager of 15 Scientific fellowships and from 2001 supervisor of 20 Master Degree/PhD Thesis of students from University of Genoa, University of Lubijana. Teaching activity has been performed both as invited seminar at University of Genoa, Lubjana and Université Pierre et Marie Curie, Paris.

2010 - - Advanced Training Course Implementation of 80-hour training course for Italian Navy officers on "Corrosion and Biodeterioration of materials in the marine environment". (Att.: Dir. Ismar, Prot 0001940 of 02 03 17)

Strongly involved in Scientific dissemination activities carried out both nationally and internationally particularly on the Framework of different editions of the Italian Science Festival.

2020 – today Participation in different Science Festival

- From 2019 -4Elements Project <https://www.4elements.tv/>

-2018 - Italian Science Festival: Scientific Advisor for the CNR Exhibition "AQUAE: the future is in the Ocean"

-2018 - Italian Science Festival: Conference: "Less plastic, more Mediterranean A meeting between ecologists and environmentalists to change the future of our sea" Garaventa F, Gorbi S, Faimali M. – Laboratory: "Plastic Change – The Plastic new Era"

-2017- Italian Science Festival: Conference: "Alien Contact" Garaventa F., Faimali M., Boero F. – Laboratory: "Plastic Contact"

-2017 - 2nd Forum Shipowners & Shipbuilding. Passenger ships, ports and environment. The green turning point of shipping: investments and opportunities. Round Table: "Shipping between best practices and new rules". Invited Speaker:

-2016 - Italian Science Festival, 1) interactive teaching laboratory on microplastic pollution entitled "Do you teach me where plastic end up?" 2) Conference: "An ocean of microplastics" seminar How to safeguard the future of the sea". Garaventa F. Faimali M. Regoli F., Aliani S., Bertolotto R.

-2011 - Teaching workshop during the event "Micro & MACRO" Laboratory and Aperitifs with the Science at Arte Mare Scienza Festival, S. Margherita Ligure (GE).

-2008 - Exhibitions at the 48th Genoa Boat Show of an innovative antifouling silicone product made in collaboration with the manufacturer (SincoMec Kolor Spa) as part of the Regional PRAI-FESR n° 6 project. <http://www.prai-liguria.it>.

-2007 - Creation and installation of a multimedia workstation at the Genoa aquarium regarding the ODAS ITALIA 1 offshore marine laboratory of the CNR. To ensure visibility and usability for a wide audience, a website has been created: http://www.urp.cnr.it/Boa_Odas/index.html.

-2007 Italian Science Festival A miniature island to be discovered: The offshore marine laboratory ODAS Italia 1

-2006 Exhibitions at the 47th Genoa Boat Show of an innovative antifouling silicone product made in collaboration with the manufacturer (SincoMec Kolor Spa) as part of the Regional project PRAI-FESR n° 6. <http://www.prai-liguria.it>.

Direct participation to programs and television/radio/web broadcasts focused on scientific dissemination.

From 2016 – Collaboration with the Magazine "Tecnologie Trasporti Mare":

-Garaventa F. Le nuove strategie dell'IMO per limitare il "marine litter" di origine navale. TTM Gennaio Febbraio 2019

-Garaventa F., Faimali M. Progetto europeo CLAIM: CNR ed Imprese insieme Sinergie per sviluppare soluzioni tecnologiche innovative in grado di ripulire i mari dalla plastica. TTM Novembre Dicembre 2018 Best Ships

-Garaventa F. - BWTMS, è la svolta buona per l'ambiente marino? TTM NovembreDicembre 2016

Language skills

Mother tongue: Italian

English: Fluent

French: Beginner/Intermediate

Scientific Production

Google scholar: Citations: 2735; H Index: 29; i10-index: 47

ISI Pubb

1. Gambardella C, Miroglio R, Trenti F, Guella G, Panevska A, Sbrana F, Grunder M, Garaventa F, Sepcic K. 2023 Assessing the toxicity of aegerolysin-based bioinsecticidal complexes using the sea urchin *Paracentrotus lividus* as model organism. *Aquatic Toxicology*, Doi: 10.1016/j.aquatox.2023.106727
2. Castelli F., Delucchi M., Valenza F., Garaventa F., Faimali M., Turturro T., Benedetti A. 2023 Behaviour of biocide free foul control paints for ships' hulls in the immediate proximity of ICCP anodes, *Journal of Coatings Technology and Research*. <https://doi.org/10.1007/s11998-023-00830-2>
3. Costa E, Gambardella C, Miroglio R, Di Giannantonio M, Lavorano S, Minetti R, Sbrana F, Piazza V, Faimali M, Garaventa F (2023) Nanoplastic uptake temporarily affects the pulsing behavior in ephyrae of the moon jellyfish *Aurelia* sp.. *Ecotoxicology* 32, 618–627, <https://doi.org/10.1007/s10646-023-02669-0>
4. Brouwer R, Huang Y, Huizenga T, Frantzi S, Le T, Sandler J, Dijkstra H, van Beukering P, Costa E, Garaventa F, Piazza V. 2023 Assessing the performance of marine plastics cleanup technologies in Europe and North America. *Ocean & Coastal Management* 238, 106555. <https://doi.org/10.1016/j.ocecoaman.2023.106555>
5. She, J., A. Christensen, F. Garaventa, U. Lips, J. Murawski, M. Ntoumas, and K. Tsiaras. 2023. Developing realistic models for assessing marine plastic pollution in semi-enclosed seas. In *Frontiers in Ocean Observing: Emerging Technologies for Understanding and Managing a Changing Ocean*. E.S. Kappel, V. Cullen, M.J. Costello, L. Galgani, C. Gordóvilaseca, A. Govindarajan, S. Kouhi, C. Lavin, L. McCartin, J.D. Müller, B. Pirenne, T. Tanhua, Q. Zhao, and S. Zhao, eds, *Oceanography* 36(Supplement 1):54–57, <https://doi.org/10.5670/oceanog.2023.s1.17>.
6. Marques M.J.F., Benedetti A., Castelli F., Delucchi M., Faimali M., Delsante S., Valenza F., Garaventa F., Pavanello G., Basseguy R. (2022) Influence of natural seawater variables on the corrosion behaviour of aluminium-magnesium alloy. *Bioelectrochemistry* 149, 108321. <https://doi.org/10.1016/j.bioelechem.2022.108321>
7. Di Giannantonio, M.; Gambardella, C.; Miroglio, R.; Costa, E.; Sbrana, F.; Smerieri, M.; Carraro, G.; Utzeri, R.; Faimali, M.; Garaventa, F. (2022) Ecotoxicity of Polyvinylidene Difluoride (PVDF) and Polylactic Acid (PLA) Microplastics in Marine Zooplankton. *Toxics*, 10(8), 479. <https://doi.org/10.3390/toxics10080479>
8. Piazza V, Gambardella C, Costa E, Miroglio R, Faimali M, Garaventa F (2022) Cold storage effects on lethal and sublethal responses of *Amphibalanus amphitrite* Nauplii. *Ecotoxicology*, 31: 1078-1086 <https://doi.org/10.1007/s10646-022-02571-1>
9. Pittura L, Garaventa F, Costa E, Minetti R, Nardi A, Ventura L, Morgana S, Capello M, Ungherese G, Regoli F, Gorbi S (2022). Microplastics analysis in seawater and marine organisms around the Giglio Island (North Tyrrhenian Sea): site-specific variations over two years of investigation. *Marine Pollution Bulletin*, Volume 181, August 2022, 113916. doi.org/10.1016/j.marpolbul.2022.113916
10. Seys J., Cox L., Yücel E., Ezgeta-Balifá D., Faimali M., Garaventa F., García-Martínez M-C., Gili C., Kopke K., Moreau K., Petretera F., Simon D., Villwock A., Zielinski T., Muñiz Piniella A. (2022). *Marine Science Communication in Europe - A way forward*. Muñiz Piniella A., Kellett P., van den Brand R., Alexander B., Rodriguez Perez A., Van Elslander J., Heymans J.J. [Eds.] *Future Science Brief*, N°8 of the European Marine Board, Ostend, Belgium. 48pp. ISBN: 9789464206166 ISSN: 2593-5232 DOI: 10.5281/zenodo.6444143
11. She J, Buhhalko N, Lind K, Mishra A, Kikas V, Costa E, Gambardella C, Montarsolo A, Faimali M, Garaventa F, Lips I (2022). Uncertainty and consistency assessment in multiple microplastic observation datasets in the Baltic Sea. *Front. Mar. Sci.* 9, 886357. <https://doi.org/10.3389/fmars.2022.886357>
12. Tsiaras k., Costa E., Morgana S., Gambardella C., Piazza V., Faimali M., Minetti R., Zeri C., Thyssen M., Ben Ismail S., Hatzonikolakis Y., Kalaroni S. and Garaventa F. (2022). Microplastics in the Mediterranean: Variability from observations and model analysis. *Front. Mar. Sci.* doi: 10.3389/fmars.2022.784937.
13. Ben Ismail S., Costa E., Jaziri H., Morgana S., Boukthir M., Ben Ismail M.A., Minetti R., Montarsolo A., Narizzano R., Sammari C., Faimali M. and Garaventa F. (2022) Evolution of the distribution and dynamic of microplastic in water and biota: a study case from the Gulf of Gabes (Southern Mediterranean Sea). *Front. Mar. Sci.* doi: 10.3389/fmars.2022.786026
14. Piazza V., Uheida A., Gambardella C., Garaventa F., Faimali M. and Dutta J. (2022) Ecosafety Screening of Photo-Fenton Process for the Degradation of Microplastics in Water. *Front. Mar. Sci.* 2126, <https://doi.org/10.3389/fmars.2021.791431>.
15. Gambardella C, Leggio O, Montarsolo A, Covazzi Harriague A, Del Core M, Faimali M, Garaventa F. (2022) An integrated approach to characterize deep sediment toxicity in Genoa submarine canyons (NW Mediterranean). *Environmental Science and Pollution Research*, 29, 2883–2893. <https://doi.org/10.1007/s11356-021-15807-0>
16. Adamopoulou A., Zeri C., Garaventa F., Gambardella C., Cloakeimidis C., Pitta E. (2021). Distribution Patterns of Floating Microplastics in Open and Coastal Waters of the Eastern Mediterranean Sea (Ionian, Aegean, and Levantine Seas). *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2021.699000>
17. Cormier B., Gambardella C., Tato T., Perdriat Q., Costa E., Veclin C., Le Bihanic F., Grassl B., Dubocq F., Karrman A., Van Arkel K., Lemoine S., Lagarde F., Morin B., Garaventa F., Faimali M., Cousin X., B'égouti M-L., Beiras R., Cachot

- J. 2021. Chemicals sorbed to environmental microplastics are toxic to early life stages of aquatic organisms. *Ecotox. Environ. Safe.* 111665. doi.org/10.1016/j.ecoenv.2020.111665.
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV