



# Marilena Sanfilippo

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**Address:** Stazione Zoologica Anton Dohrn, C.da Porticatelletto 29 Villa Pace, 98166, Messina, Italy (Work)

## ● ABOUT ME

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Orcid ID: 0000-0003-2327-5827  
Web of Sciences ResearcherID: [M-1247-2019](https://orcid.org/0000-0003-2327-5827)  
Scopus author identification: 14421869700  
H-Index: **16**  
Total citations: **1225**

## ● WORK EXPERIENCE

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1 SEP 2019 – CURRENT Messina, Italy

**SCIENTIFIC LABORATORY TECHNICIAN** STAZIONE ZOOLOGICA ANTON DOHRN (SZN), RIMAR SECTION, MESSINA

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Technical Collaborator Research Institutes

National Institute of Biology, Ecology and Marine Biotechnology

Department of Research Infrastructures for Marine Biological Resources (RIMAR)

Sicily Marine Centre, Messina (Villa Pace), Contrada Porticatelletto 29 - 98167 Messina

Activity: analysis, testing and support researchers for several activities. Observe and monitor laboratory activities, record test sequences and analyse the results. Microscopy observation and support on Microplastics analysis.

ASSIGNMENTS:

From 19/07/2022: Person in charge in accordance with the provisions of Legislative Decree 81/2008 on the protection of health and safety in the workplace, for the activities carried out by the Stazione Zoologica Anton Dohrn at the Messina site (Prot. 4614, 01/08/2022).

From 02/05/2022: Functional Area Manager (RAF) 'Biology, Ecology and Management of Fishery Resources' of the Zoological Station Anton Dohrn, Sicily Marine Centre (Order of the Director Sicily Office No. 1/2022).

From 02/05/2022: Head of Functional Area (RAF) "Microbial Ecology and Marine Biotechnology" of the Stazione Zoologica Anton Dohrn, Sicily Marine Centre (Order of the Director Sicily Office No. 2/2022).

From 18/11/2022: Contract Execution Director for the "Waste Collection, Transport and Disposal" Service for SZN Messina and Milazzo (Determination DG 558/22).

From 23/06/2021: Delegation of authority to the Head Office Director to safeguard and administer the resources of the bursar's fund entrusted to the Messina office and to account for the expenditure to those responsible in accordance with the "Rules for the management of the bursar's cash service" approved by resolution No. 4 of 11 May 2019 (Prot. 3196, 24/06/2021).

30 NOV 2016 – 29 MAY 2018 Enna, Italy

**BIOLOGIST** ARPA SICILIA

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EXPERT IN BIOLOGY OF INTERNAL WATERS within the Project "UPDATING THE KNOWLEDGE OF THE QUALITY OF INTERNAL WATERS". Specifically: Phytoplankton sampling and determination of hydrological parameters using a multiparameter probe. Phytoplankton analysis with identification of algal species, counting and determination of the biovolume with calculation of the final ecological quality index. CoCoCo collaboration agreement.

SEP 2001 – DEC 2016 Messina

**RESEARCH COLLABORATOR** MESSINA UNIVERSITY

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Collaborations in various capacities, as a Subject Expert for the SSD BIO/07, thesis and doctoral student support, educational laboratories and theoretical-practical exercises

1 NOV 2015 – 31 MAR 2016 Messina, Italy

**RESEARCH FELLOW** UNIVERSITY OF MESSINA , FACULTY OF VETERINARY SCIENCES

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Collaboration to the research of the PON Project for Research and Competitiveness 2007-2013 - PON02\_00451\_3362185 INNOVAQUA "Technological innovation to support the increase in productivity and competitiveness of Sicilian aquaculture" on the topics: 1) *Gracilaria sp.* in wastewater from breeding plants, abatement tests for pollutant loads with algal cultures and extraction of bioactive compounds; 2) Support activities at the experimental center for the management of stocks of *Seriola dumerili* broodstock.

9 OCT 2015 – 29 OCT 2015 Roma, Italy

**RESEARCH COLLABORATOR (OCCASIONAL COLLABORATION ASSIGNMENT)** CONISMA  
(NATIONAL INTERUNIVERSITY CONSORTIUM FOR SEA SCIENCES)

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Water sampling and laboratory analysis, assistance in housing fish and support for scientific reporting of the RITMARE Project

1 MAY 2014 – 11 AUG 2015 Messina, Italy

**RESEARCH FELLOW** UNIVERSITY OF MESSINA, FACULTY OF VETERINARY SCIENCES

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Researcher within the PON Project for Research and Competitiveness 2007-2013 - PON02\_00451\_3362185 INNOVAQUA "Technological innovation to support the increase in productivity and competitiveness of Sicilian aquaculture" on the topics: 1) *Gracilaria sp.* in wastewater from breeding plants, abatement tests for pollutant loads with algal cultures and extraction of bioactive compounds; 2) Support activities at the experimental center for the management of stocks of *Seriola dumerili* broodstock.

11 JAN 2015 – 29 JUN 2015 Messina, Italy

**TUTOR** UNIVERSITY OF MESSINA, FACULTY OF VETERINARY SCIENCES

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Tutor of assistance to the research for the For-Innovaqua High Training course, PON02\_00451\_3362185 / F1. Supporting of a formant for the activities related to the culture in the aquarium under controlled conditions of *Gracilaria gracilis* and the cultivation in experimental tanks with wastewater from aquaculture plants. Activities to be carried out at the Dept. of Biological and Environmental Sciences of the University of Messina.

14 JAN 2014 – 13 APR 2014 Roma, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT)** CONISMA (NATIONAL INTERUNIVERSITY CONSORTIUM FOR SEA SCIENCES)

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Collaboration in the research of the CoNISMa URL of Messina in the context of the RITMARE Project: sampling, in situ determinations and analysis of breeding waters, in an aquaculture industrial plant.

31 JUL 2013 – 29 NOV 2013 Roma, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT)** CONISMA (NATIONAL INTERUNIVERSITY CONSORTIUM FOR SEA SCIENCES)

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Collaboration in the research of the CoNISMa URL of Messina in the context of the RITMARE Project: sampling, in situ determinations and analysis of breeding waters, in an aquaculture industrial plant.

31 OCT 2012 – 29 JUN 2013 Roma, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT)** CONISMA (NATIONAL INTERUNIVERSITY CONSORTIUM FOR SEA SCIENCES)

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Collaboration in the research of the CoNISMa URL of Messina in the context of the RITMARE Project: sampling, in situ determinations and analysis of breeding waters, in an aquaculture industrial plant.

17 APR 2012 – 30 DEC 2012 Messina, Italy

**COLLABORATOR (PROJECT CONTRACT)** HORCYNUS ORCA FOUNDATION

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Design of the contents of the educational workshops that will constitute the educational offer of the Horcynus Orca Park aimed at schools and coordination of activities related to their realization and those aimed at implementing the TSR® process.

Conducting educational / scientific visits to first and second grade students in the Horcynus Orca Foundation in Capo Peloro (Messina)

NOV 2011 – FEB 2012 Messina, Italy

**COMPANY TUTOR "E. VITTORINI" COMPREHENSIVE SCHOOL**

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Company tutor, on behalf of the Horcynus Orca Foundation for 20 hours of project management PON-2007-2013 "Respect the environment than myself", at the Comprehensive School "E. Vittorini" - Via Comunale, SS. Annunziata MESSINA - 98168

FEB 2011 – SEP 2011 Messina, Italy

**EXTERNAL TEACHER (EXPERT BIOLOGIST) "SAN GIOVANNI BOSCO" JOINT INSTITUTE**

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External teacher (expert biologist). Project POR-FSE 2007-2013 "The sense of legality" - Code 2007.IT.051PO. 003 / IV / I2 / F / 9.2.5 / 0678 - Action B - Module 2 "Laboratory on environmental issues concerning the reference territory" - 45 hours

30 SEP 2009 – 29 SEP 2011 Messina, Italy

**POST-DOCTORAL FELLOW UNIVERSITY OF MESSINA, DEPARTMENT OF ANIMAL BIOLOGY AND MARINE ECOLOGY**

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Researcher with autonomous responsibility in carrying out the research project "Organic carbon in the brackish environments of the Capo Peloro Natural Reserve"

FEB 2011 – APR 2011 Messina, Italy

**EXTERNAL TEACHER (EXPERT BIOLOGIST) COMPREHENSIVE INSTITUTE NO. 7 "ENZO DRAGO"**

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External teacher (expert biologist). PON Project Objective C - Action 1. Teaching course "River, streams, hydrogeological instability" - 10 hours

JAN 2010 – MAY 2010 Messina, Italy

**EXTERNAL TEACHER (BIOLOGIST EXPERT) "VERONA TRENTO" STATAL TECHNICAL INSTITUTE**

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External teacher (biologist expert in environmental issues). PON Project Objective F - Action 2 COD. F-2-FSE-2009-251 "Respect for others respect for oneself". Conduction Modules: "Ethology and social relations" and "Pollution and sustainable development" - 25 hours

30 NOV 2008 – 30 NOV 2009 Messina, Italy

**VOLUNTARY INTERNSHIP ARPA SICILIA (REGIONAL AGENCY FOR ENVIRONMENTAL PROTECTION)**

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Collaboration in laboratory activities in the marine and inland water sector (taxonomic determinations of marine and river benthic species, chemical-physical analysis of water)

31 MAY 2009 – 30 JUL 2009 Messina, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT) GAIA COOPERATIVE SOCIETY**

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Advice on the quality of food to companies that process and market food products and the drafting of related manuals, in compliance with Legislative Decree 155/97 and the new provisions of the "Hygiene Package".

1 OCT 2008 – 30 JUN 2009 Messina, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT) UNIVERSITY OF MESSINA, DEPARTMENT OF ANIMAL BIOLOGY AND MARINE ECOLOGY**

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Researcher in the "Sicily Region Management Plans" Project.

Activity carried out: collection of bibliography concerning the fish resources present along the Sicilian coasts in order to identify the spatial distribution of the habitats essential for the vital phases of the commercial species. Control of the phases related to the opening of fishing to "Sardinian juveniles", with surveys in the field, sampling and statistical processing on the species identified in the survey sites.

27 JUL 2008 – 29 APR 2009 Ferrandina (MT), Italy

**TUTOR FOR ON THE JOB TRAINING IMPRESAMBIENTE S.C.A.R.L.**

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Tutor for on-the-job training of a scholarship student within the Project: "ImpresAmbiente" Technological Competence Center in the environmental risk sector for the promotion of technological innovation and business competitiveness".

National Operational Program for Regions Objective 1 "Scientific Research, Technological Development, Higher Education" 2000-2006; Axis II "Strengthening of the Scientific and Higher Education System" - Measure II.3 "Technological Competence Centers" (Notice 1854/2006).

1 OCT 2006 – 30 SEP 2008 Messina, Italy

**RESEARCH FELLOW** UNIVERSITY OF MESSINA, DEPARTMENT OF ANIMAL BIOLOGY AND MARINE ECOLOGY

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Collaborator in the Project "Strengthening the Monitoring Laboratory for the Sustainable Monitoring of Aquatic Resources (LARA)" of the Department of Industry of the Sicilian Region in collaboration with the Ministry of University and Scientific Research (MIUR). Chemical and physical analysis of marine waters, use of scientific instruments such as TOC analyzer and HPLC

31 JUL 2008 – 29 SEP 2008 Messina, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT)** GAIA COOPERATIVE COMPANY

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Sampling at mariculture facilities, chemical-physical analysis of water and marine sediments, processing of results and final draft report

MAR 2008 – MAY 2008 Messina, Italy

**EXTERNAL TEACHER (EXPERT BIOLOGIST)** "GALLO" MIDDLE SCHOOL

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External teacher (expert biologist). PON Project "Skills for Development" European Social Fund - 2007 IT 05 1 PO007 - Annuity 2007/2008 "Let's learn to explore the world". AXIS I - Objective C "Improving young people's knowledge and competence levels". Conduction Module C.1.2: "Let's learn to explore the world" - 15 hours

APR 2006 – MAY 2006 Messina, Italy

**EXTERNAL TEACHER (EXPERT BIOLOGIST)** STATAL INDUSTRIAL TECHNICAL INSTITUTE "VERONA TRENTO"

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External teacher (expert biologist). PON Project Measure 3 Action 3.2 COD. 3.2 - 2005 "Messina: The Strait between Literature and Scientific Research". Conduction Module 5: "Biological Aspects of the Strait of Messina" - 15 hours

3 APR 2006 – 28 MAY 2006 Messina, Italy

**LABORATORY TUTOR** UNIVERSITY OF MESSINA

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Development of educational workshops on the subject of "Oceanography" in the Degree Course in Biology and Marine Ecology (20 hours)

FEB 2006 – APR 2006 Messina, Italy

**EXTERNAL TEACHER (EXPERT BIOLOGIST)** "ARCHIMEDE" STATE SCIENTIFIC HIGH SCHOOL

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External teacher (expert biologist). PON Project Measure 3 Action 3.2 COD. 3.2 - 2005-337 "Domus: school in the territory". Conducting Module "Environmental Protection and Safeguard" - 12 hours

18 OCT 2005 – 14 NOV 2005 Messina, Italy

**LABORATORY TUTOR** UNIVERSITY OF MESSINA

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Development of educational workshops on the subject "Conservation of Nature and its Resources" in the Degree Course in Natural Sciences (10 hours)

9 JUN 2005 – 29 JUN 2005 Messina, Italy

**RESEARCH COLLABORATOR (OCCASIONAL COLLABORATION ASSIGNMENT)** UNIVERSITY OF MESSINA, DEPARTMENT OF ANIMAL BIOLOGY AND MARINE ECOLOGY

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Data processing and collaboration drafting final report POR 2000-2006 project "Evaluation of fishery resources after 12 years from the measures adopted for fishery management (Gulf of Patti-ME)".

29 FEB 2004 – 29 APR 2005 Messina, Italy

**RESEARCH COLLABORATOR (RESEARCH CONTRACT)** UNIVERSITY OF MESSINA , DEPT. OF ANIMAL BIOLOGY AND MARINE ECOLOGY

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Collaborating in POR 2000-2006 project "Evaluation of fishery resources after 12 years from the measures adopted for fisheries management (Gulf of Patti-ME)".

Participation in sampling of water and organisms and analytical determinations in the laboratory on water samples (analysis of nutrient salts, chlorophyll a, feopigments, TOC, TN, TC)

10 OCT 2004 – 25 APR 2005 Messina, Italy

**LABORATORY TUTOR** UNIVERSITY OF MESSINA

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Development of educational laboratories of the subject "Chemical Oceanography" (BIO / 07) in the Degree Course in Biology and Marine Ecology (40 hours)

12 FEB 2005 – 26 FEB 2005 Messina, Italy

**LABORATORY TUTOR** UNIVERSITY OF MESSINA

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Development of educational workshops on "Environmental Chemistry" for students of the Degree Course in Environmental and Nature Sciences (10 hours)

30 SEP 2004 – 29 JAN 2005 Messina, Italy

**RESEARCH COLLABORATOR (PROJECT CONTRACT)** GAIA COOPERATIVE COMPANY

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Sampling, analysis on the quality of fish products and implementation of a protocol for defining the quality of fish products within the project "Determination of a protocol for the identification of a quality mark for fish products of the Aegadian Islands MPA".

## ● **EDUCATION AND TRAINING**

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SEP 2000 – FEB 2004 Messina, Italy

**PH.D IN "ENVIRONMENTAL SCIENCES: MARINE ENVIRONMENT AND RESOURCES"** University of Messina

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Ph.D in "Environmental Sciences: Marine Environment and Resources" - XVI Cycle. Thesis on "Anthropic impact in three Protected Marine Areas: Ustica Island (PA) - Ciclopi Islands (CT) - Capo Rizzuto (KR)". Tutor: Prof. Antonio Manganaro.

**Level in EQF** EQF level 8

AUG 1994 – 9 MAR 2000 Messina, Italy

**DEGREE IN BIOLOGICAL SCIENCES, BIO-ECOLOGICAL CURRICULUM** University of Messina

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Experimental thesis: "The organic component of seston in Lake Ganzirri: quality and nutritional value as an environmental resource", carried out within the National Program M.U.R.S.T. 40% (1998-2000) "Conservation of biodiversity and sustainable management of the brackish biotopes of the Italian coasts". (Supervisor: Dott.ssa g. Pulicanò, Co-rapporteur: prof. A. Manganaro).  
Votation: 110/110.

**Level in EQF** EQF level 7

14 MAR 2000 – 13 MAR 2001 Messina, Italy

**QUALIFICATION FOR THE PROFESSION OF BIOLOGIST** Università di Messina

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Qualification obtained in the session of May 2001.

Votation: 140/150.

Practical training on the main techniques of chemical and physical and biological sampling and analysis of marine and brackish water at the T.A.R.Ge.T. (Environmental Protection, Resources and Territory Management) of the Department of Animal Biology and Marine Ecology of the University of Messina (responsible Prof. Antonio Manganaro) and on chemical-physical analyzes on food at the "Food Chemistry" Laboratory of the Department of Organic and Biological Chemistry of the University of Messina (Head of Prof. Marisa Ziino)

Participation, as Expert on the subject for the SSD BIO/07, in the examination committees for the subjects: "Conservation of nature and its resources" and "C.I. Aquiculture"

AUG 1988 – 20 JUL 1993 Messina, Italy

**CLASSICAL HIGH SCHOOL DIPLOMA** "Maurolico" Classic High School

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Main subjects studied: Italian, Latin, Greek, History, Geography, Mathematics, Sciences, Astronomical geography, Chemistry, Physics, Philosophy, Art history

Level in EQF EQF level 4

## ● LANGUAGE SKILLS

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Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B1	B2	B1	B1	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

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Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Microsoft Office | Skype | Facebook | LinkedIn | Zoom | Twitter | Social Media

## ● ADDITIONAL INFORMATION

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### DRIVING LICENCE

Driving Licence: B

### HONOURS AND AWARDS

**Honours and awards 7 October 2016:** Included in the Short list of experts in the field of Marine Strategy, for monitoring activities envisaged by Ministerial Decree 11 February 2015 on the Marine Strategy. CoNISMA Rome, Notice of selection of 22 April 2016

**6 July 2011:** Included in the Long-List of external experts ("Marine biological area" section) of the Department of Fisheries Interventions of the Sicily Region, to be used for the evaluation of project proposals in the fisheries field, valid for co-financed operations of the FEP OP or on other EU, national and / or regional funds or for any other highly specialized task regarding the Department's own activities. D.D.G. 518 / Fishing

**2010:** Membership of the LaguNet Association

**March 27, 2002:** Joining the CoNISMA (National Interuniversity Consortium for Sea Sciences) for the thematic section Biological Oceanography and Marine Biology

**September 21, 2001:** Winner of the V Kiwanis Degree Award, announced by Kiwanis International of Messina, for the best degree thesis on the territory.

**August 19, 2000:** Participation in the episode of Lineablu (RaiUno) on the lakes of Ganzirri and Faro.

**May 22, 2013:** Participation in TG Leonardo (RaiTre), episode on Capo Peloro and the Horcynus Orca Park

### ORGANISATIONAL SKILLS

**Organisational skills** Excellent organizational skills in drafting and managing research projects. Excellent skills in managing work and work groups in collaboration and in research groups. Considerable experience in collaborating in conducting research campaigns and in situ sampling.

### JOB-RELATED SKILLS

Job-related skills

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Excellent practice in the use of the main water and sediment sampling equipment (Niskin bottle, Rosettes, Buckets, multiparameter probe). Use of TOC Analyzer, Spectrophotometers, Spectrofluorimeters, Analytical balances, Vibrosethers for granulometric analysis, Optical microscope and inversion microscope. Excellent knowledge of the main methods of water and sediment analysis. Good knowledge of sampling and recognition of phytoplankton in marine and inland waters, with phytoplankton biovolume determination.

## **EDITORIAL BOARD MEMBERSHIPS**

### **Editorial Board Memberships**

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Participation to the Editorial Board of:

- Mathews Journal of Pharmaceutical Science. Matthews Open Access Journal, New Jersey, USA
- Research and Advances: Aquatic Sciences. Ocimum Scientific Publisher, Australia
- Aquaculture and Fisheries Studies. ResearchOpen World, Isleworth, England,

## **REFeree FOR SCIENTIFIC JOURNALS**

### **Referee for Scientific journals**

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Referee for international scientific journals:

- Turkish Journal of Fisheries and Aquatic Sciences, from aug 2016
- Fish and Shellfish Immunology, from jul 2016
- Annals of Marine Biology and Research, from nov 2016
- Diversity MDPI, from may 2019
- Journal of Food Science & Technology
- Data MDPI, from jan 2021
- Water MDPI, from jan 2021
- Applied Sciences MDPI (ISSN 2076-3417), from apr 2021

## **BOARD MEMBER IN PUBLIC COMPETITIONS**

### **Member of the selection Committee for fellowships for research activities and for Research grants\_2023**

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**Member of the selection Committee (with also the function of verbalizing secretary) for Research Grant n. 19/2023. Determination of the General Manager n. 311/2023 of 27/04/2023.**

17 MAY 2022 – 7 JUN 2022

### **Member of the selection Committee for assignment of self-employment**

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Member of Selection Board (with also the function of verbalizing secretary) for an individual assignment, with self-employment contract, concerning "Activities inherent to the development of the actions foreseen by the European Fund for Maritime Affairs Fisheries and Aquaculture (FEAMPA) for the regions of Sicily and Calabria 2021 - 2027" - Determination of the General Manager no. 110 of 07/03/2022

3 DEC 2021 – 4 JAN 2022

### **Member of technical commission for negotiated procedure**

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Member of technical commission for negotiated procedure ex art. 63, co. 6 of D.Lgs. 50/2016 for the assignment of the supply of a Flotation System complete with meteorological station, acoustic modems and CH4 and CO2 sensors. CIG: 89449863F6; Contract G00076. Project: "Implementation of the ECCSEL natural laboratory in Panarea and of the marine observatory"

FEB 2021 – AUG 2021

### **Member of the selection Committee for Fellowship for research activities at the Anton Dohrn Zoological Station in 2021**

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- Member of the selection Committee for the awarding of fellowship for research activities n. 37/2021. Determination of the General Administration Coordinator n. 186 of 30/08/2021.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities n. 17/2021. Determination of the General Administration Coordinator n. 148 of 22/07/2021.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities n. 17/2021. Determination of the General Administration Coordinator n. 64 of 21/04/2021.

- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities n. 14/2021. Determination of the General Administration Coordinator n. 50 of 08/04/2021.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities n. 02/2021. Determination of the General Manager no. 68 of 05/02/2021.

JUL 2020 – NOV 2020

### **Member of the selection Committee for Research grants at the Anton Dohrn Zoological Station in 2020**

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- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the research grant n. 18/2020. Determination of the General Manager no. 261 of 02/07/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the research grant n. 19/2020. Determination of the General Manager no. 320 of 28/07/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the research grant n. 20/2020. Determination of the General Manager no. 300 of 17/07/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the research grant n. 28/2020. Determination of the General Manager no. 684 of 26/11/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the research grant n. 29/2020. Determination of the General Manager no. 685 of 26/11/2020.

JUL 2020 – OCT 2020

### **Member of the selection Committee for the fellowship for research activities at the Anton Dohrn Zoological Station in 2020**

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- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 11/2020. Determination of the General Manager no. 282 of 13/7/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 15/2020. Determination of the General Manager no. 283 of 13/7/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 30/2020. Determination of the General Manager no. 483 of 01/10/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 31/2020. Determination of the General Manager no. 458 of 06/10/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 37/2020. Determination of the General Manager no. 462 of 06/10/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 39/2020. Determination of the General Manager no. 465 of 07/10/2020.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 40/2020. Determination of the General Manager no. 468 of 08/10/2020.

FEB 2022 – JUL 2022

### **Member of the selection Committee for the fellowship for research activities at the Anton Dohrn Zoological Station in 2022**

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- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 10/2022. Determination of the General Manager no. 65 del 21/02/2022.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 21/2022. Determination of the General Manager no. 132 del 28/03/2022.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 24/2022. Determination of the General Manager no. 129 del 23/03/2022.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 30/2022. Determination of the General Manager no. 181 del 28/04/2022.

- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 29/2022. Determination of the General Manager no. 180 del 28/04/2022.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 46/2022. Determination of the General Manager no. 281 del 08/07/2022.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of fellowship for research activities No 38/2022. Determination of the General Manager no. 217 del 17/05/2022.

SEP 2022 – DEC 2022

### **Member of the selection Committee for the research grant at the Anton Dohrn Zoological Station in 2022**

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- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the research grant n. 18/2022. Determination of the General Manager no. 353 of 05/09/2022.
- Member of the selection Committee (with also the function of verbalizing secretary) for the awarding of the two research grants n. 40/2022. Determination of the General Manager no. 649 of 23/12/2022.

## **COURSES AND FORMATIVE EVENTS**

8 NOV 2022 – 8 NOV 2022

### **Training Course for Safety Officers in the Workplace**

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Participation in the Training Course for Safety Officers in the Workplace, as Responsible Officer for the Messina site. SZN Naples, 08/11/2022, 8 hours.

27 JUL 2021 – 27 JUL 2021

### **Basic course on public contracts below the thresholds**

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Basic course on public contracts below the thresholds, organised by the Stazione Zoologica Anton Dohrn and held in webinar mode (6 hours)

16 MAY 2021 – 20 MAY 2021

### **EANA Spring School 2021 on hydrothermal vents**

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EANA Spring School 2021 on hydrothermal vents, which took place virtually from May 17th to 21st. The total lecture time was 12 hours and the attendee successfully passed an exam.

25 NOV 2020 – 2 DEC 2020

### **Training course "Scenario and perspectives of the new European program for research and innovation"**

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Training course "Scenario and perspectives of the new European program for research and innovation" APRE – Agenzia per la Promozione della Ricerca Europea  
24-26/11/2020 – 01-03/12/2020

22 JUL 2020 – 30 JUL 2020

### **Safety and prevention in the workplace and workplace management accidents**

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FAD Training course Safety and prevention in the workplace and workplace management accidents (6 hours of form), by ISPRA and National system for environmental protection.

7 APR 2020 – 30 DEC 2020

### **FAD Course n.295239**

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FAD Course n.295239 "Real time PCR in virologia, il tool diagnostico ideale per l'emergenza sanitaria causata dal nuovo coronavirus (2019-NCOV)", by National Biology Order (5,4 ECM)

29 MAR 2020 – 30 DEC 2020

### **FAD Course n.294115**

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FAD Course n.294115 "UN OVERVIEW SUI MECCANISMI DI RESISTENZA ANTIMICROBICA", by National Biology Order (3 ECM)

31 OCT 2019 – 29 NOV 2019

### **Formative Event n° 337-245753**

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Formative Event n° 337-245753 Ediz. n°1 "IL RISCHIO LEGIONELLA NELLE ACQUE DESTINATE AL CONSUMO UMANO ", by FederLab (25 ECM)

23 SEP 2019 – 30 DEC 2019

**FAD Course n.275302**

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FAD Course n.275302 "IL SOPRALLUOGO GIUDIZIARIO", by National Biology Order (5 ECM)

28 APR 2019 – 30 DEC 2019

**FAD Course n.262996**

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FAD Course n.262996 "INTERAZIONI TRA FITOTERAPICI E FARMACI CONVENZIONALI", by National Biology Order (3 ECM)

6 MAR 2017 – 8 MAR 2017

**THEMATIC MONITORING LABORATORY OF WATER BODIES - INVASES**

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THEMATIC MONITORING LABORATORY OF WATER BODIES - INVASES. Palermo, Directorate General of ARPA Sicily. Created by Sogesid S.p.A. on behalf of the Ministry of the Environment and the Protection of the Territory and the Sea - General Directorate for Sustainable Development, for Environmental Damage and for Relations with the European Union and International Organizations, to apply to the PAC PON GAT 2007-2013 AA Strengthening Project, Intervention Line 2 - Adoption of management plans consistent with the "waters" legislation - Hydrographic District of Sicily.

14 MAR 2017 – 14 MAR 2017

**Training course for use of MAR3 multi-parameter probe**

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Training course for "Description, use and maintenance of a measurement system consisting of a MAR3 type multi-parameter profiling probe with P, T, C, O2 sensors, pH with direct self-adjusting reading". ARPA Sicily, ST of Palermo.

24 NOV 2010 – 25 NOV 2010

**Advanced course for "Software LC Solution" users for HPLC.**

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Advanced course for "Software LC Solution" users for HPLC. Analytical technique and instrumental settings. Shimadzu Italy, Milan.

28 FEB 2010 – 29 APR 2010

**Course for the use of the ArcGis 9.3 software aimed at obtaining the ECDL-GIS certification**

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Course for the use of the ArcGis 9.3 software aimed at obtaining the ECDL-GIS (Geographic Information System) certification for the use of GIS systems and their main components and functions. University of Messina. Achievement of the European Certification ECDL-GIS (Geographic Information System). Certification body AICA-ECDL Foundation.

12 MAY 2019 – 12 MAY 2019

**Advanced course for users of "Shimadzu TOC analyzers mod. TOC-VCSH / TOC-VCSN.**

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Advanced course for users of "Shimadzu TOC analyzers mod. TOC-VCSH / TOC-VCSN. Analytical technique and instrumental settings. Shimadzu Italy, Milan.

21 APR 2004 – 21 APR 2004

**Training course "The water directive 2000/60 / EC: which biological indicators?"**

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Training course "The water directive 2000/60 / EC: which biological indicators?", Organized by S.I.B.M. (Italian Society of Marine Biology) and ARPA. Rome

8 DEC 2004 – 14 DEC 2004

**Course "Evaluation of risks and good practice in scientific laboratories".**

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Course "Evaluation of risks and good practice in scientific laboratories". Faculty of Sciences MM FF NN University of Messina.

15 MAR 2001 – 15 MAR 2001

**Training course "Feasibility studies methodology for interventions on the coastal marine band**

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Workshop-Training course "Feasibility studies methodology for interventions on the coastal marine band", organized by the CoNISMa in agreement with the Environment Department of the Sicily Region and with the ARPA Sicily. Milazzo.

26 MAY 2022 – 23 JUN 2022

## **Course on Popular and Scientific Communication Techniques**

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Participation in the Course on Popular and Scientific Communication Techniques held by Dr Marco Castellazzi. SZN Naples/on-line, 26/5-23/6/2022, 20 hours.

## **CERTIFICATIONS**

### **Certifications**

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**28 July 2011:** European ECDL-GIS (Geographic Information System) certification, GIS000729 (AICA-ECDL Foundation)

## **PARTECIPATION IN RESEARCH PROJECTS**

### **Partecipation in Research Projects**

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**2012-2015:** Participation in the PON Research and Competitiveness Project 2007-2013 - PON02\_00451\_3362185 INNOVAQUA "Technological innovation to support the increase in productivity and competitiveness of Sicilian aquaculture", of the AgroBioPesca Technology District, in collaboration with Acqua Azzurra spa, University of Palermo, University of Messina, Institute for Coastal Marine Environment (IAMC) and Experimental Zooprophyllactic Institute of Sicily (IZSS)

**2012-2015:** Participation in the Flag Project "RITMARE - The Italian Research for the Sea". National Interuniversity Consortium for Sea Sciences and Dept. of Biological and Environmental Sciences, University of Messina. Collaboration in the research of the CoNISMa URL of Messina for sampling, in situ determinations and analysis of the waters of teleost breeding tanks (*Pagellus bogaraveo* and *Scorpaena scrofa*) in an aquaculture industrial plant.

**2000-2013:** Consultancy for agro-food companies for the application of the Self-Control Plan according to the HACCP system (Hazard Analysis and Control Critical Point), Legislative Decree 155/97 and the new indications of the Hygiene Package according to the EC Reg. 852/04.

**2011-2012:** Environmental Impact Assessment, related to the Final Project related to the infrastructures connected with the road network on the coverage of the final stretch of the Annunziata Torrent. Municipality of Messina, Urban Mobility and Viability Department. Commissioned by Ing. Carlo Simone. (Provision on behalf of Gaia Soc. Coop.)

**January 2011:** Chemical-physical investigations in the Augusta area as part of the "BIOWALK UO\_PI" Project - Commissioned by the CoNISMA (National Interuniversity Consortium for Sea Sciences) in Rome. (Provision on behalf of Gaia Soc. Coop.)

**2009:** Sampling and support for underwater investigations as part of the Environmental Impact Study related to the "Environmental recovery and redevelopment of the stretch of coast between the Mazzeo and Fondaco Prete streams in the territory of Letojanni - second part: Sillemi stream - Via Catania ". Commissioned by the Municipality of Letojanni (ME). (Provision on behalf of Gaia Soc. Coop.)

**2008-2009:** Participation in the "Sicily Region Management Plans" Project of the Department of Animal Biology and Marine Ecology of the University of Messina

**June 2009:** Collaboration in the sampling and biocenotic study within the project "Executive project of reconstruction and defense of the beaches aimed at rebalancing the coastline along the municipal coastal strip - 2nd functional section - Municipality of Giardini Naxos". Commissioned by P3A Engineering S.r.l. of Messina

June-December 2008: Environmental monitoring of off-shore plant for the breeding of red tuna (*Thunnus thynnus* L., 1758) located in Giammoro (ME), commissioned by the Company Pescazzurra S.p.A. of Messina. (Provision on behalf of Gaia Soc. Coop.)

**April-May 2008:** Collaboration in the sampling and the bionomic study of the seabed and the characterization of the Posidonia plant for the assessment of possible environmental impacts in the framework of the Project for the construction of a marina consisting of floating piers in the coastal strip of Milazzo. Commissioned by Disalnautica S.r.l. of Milazzo. (Provision on behalf of Gaia Soc. Coop.)

**2007:** Realization Project "Creation of an internet portal for the promotion of Sicilian fishing products" of the Cooperative Society Gaia. "Annual program of promotion and communication in the fishing sector" of the Sicilian Region Department of Cooperation, Trade, Crafts and Fisheries - 2006 financial year.

**2007:** Participation in the project "Enhancement of under-utilized fish species for greater consumption, for less expenditure and improvement of the quality of life" of the Messina Chamber of Commerce in collaboration with the Department of Animal Biology and Marine Ecology University of Messina. "Annual program of promotion and communication in the fishing sector" of the Sicilian Region Department of

Cooperation, Trade, Crafts and Fisheries - 2006 - Action C) Promotion and dissemination - Objective b) Marketing of Sicilian fish products and of the nutritional values of the same, also in view of the prevention of risky food behaviors.

**May-December 2007:** Environmental monitoring of off-shore plant for the breeding of red tuna (*Thunnus thynnus* L., 1758) located in Giammoro (ME), commissioned by the Company Pescazzurra S.p.A. of Messina. (Provision on behalf of Gaia Soc. Coop.)

**2007-2008:** Participation in the Project "Innovative technologies for the improvement of the" quality "of the meat of a new species (*Pagrus pagrus*) for the aquaculture industry". POR Sicily 2000-2006, Measure 3.14 - Promotion and support for the regional system for research and innovation.

**01/2006 - 12/2008:** Participation in the Project "Enhancement of the Laboratory of Monitoring and Sustainable Management of Water Resources (LARA)" of the Department of Industry of the Sicilian Region in collaboration with the Ministry of University and Scientific Research (Ministry of Education).

**2006-2008:** Participation in the QUALIFISH Project "Quality and certification systems: an integrated approach for enhancing fish production". INTERREG III A ITALY-ALBANIA Community Initiative Program, AXIS III - ECONOMIC DEVELOPMENT AND EMPLOYMENT, Measure 3.1 - Development and quality of the agricultural and marine system, Action C) Redevelopment of the fishery-transformation-consumption process of pelagic and demersal fish products.

**11-13 April 2006; 6-9 June 2006; 16-18 August 2006; 24-27 November 2006:** Boarding on M/nR "Universitatis" of the CoNISMa (National Interuniversity Consortium for the Sciences applied to the Sea) for participation in the oceanographic campaigns in the Southern Tyrrhenian Sea, the Strait of Messina and the Central Ionian Sea. Project "Monitoring chemical-physical characteristics of the waters of the Strait of Messina in relation to the migratory flow of cetaceans" of the Department of Animal Biology and Marine Ecology - University of Messina.

**July 2006:** Execution of surveys, studies and sampling of samples for the determination of the flora and fauna characteristics of the coastal stretch of Bova Marina (RC), "Pilot project aimed at securing the public and private heritage and redevelopment of the beach facing the village of Bova Marina ". Commissioned by P3A Engineering S.r.l. of Messina. (on behalf of Gaia Soc. Coop.).

**March-December 2006:** Participation in the Project "Chemical-physical monitoring of the Messina Strait waters in relation to the migratory flow of cetaceans" of the Department of Animal Biology and Marine Ecology of the University of Messina on behalf of the Strait Society of Messina S.p.A.

**2004-2005:** Participation in the POR 2000-2006 project "Evaluation of fishery resources after 12 years from the measures adopted for the management of fisheries (Gulf of Patti-ME)" of the Department of Animal Biology and Marine Ecology.

**July-December 2004:** Protocol for the realization of a quality mark for the fish product of the Province of Catania within the project "Actions aimed at obtaining advice and services for wholesalers, retailers and producer organizations in the Province of Catania ". Commissioned by the Mediterranean Consortium (ROME). (Provision on behalf of Gaia Soc. Coop.).

**September - October 2004:** Study of fish and benthic communities carried out as part of the executive project for the construction of an off-shore power plant for the production of alternative energy (wind), an area called "La Secca (AG). Commissioned by Moncada Costruzioni Srl (Provision on behalf of Gaia Soc. Coop.).

**February 2004:** Sedimentological analysis for the execution of the nourishment project for the defense of the inhabited areas of Rodia, S. Saba and Acqualadroni. Commissioned by the Soc. Coop. C.E.D.I.S. (Provision on behalf of Gaia Soc. Coop.).

**February-December 2003:** Participation in the University Research Program (PRA) of the Department of Animal Biology and Marine Ecology "Influences and biotic and abiotic anomalies" induced "in the Pantano Piccolo (Faro-Capo Peloro)".

**December 2003:** Drafting of a process manual based on Legislative Decree 155/97 in the context of the "Production of inland waters" Project - National Plan for the development of freshwater aquaculture, pursuant to the law of May 21st 1998 , No. 124. Commissioned by the Mediterranean Consortium. (Provision on behalf of Gaia Soc. Coop.).

June - October 2003: Project "Determination of a protocol for the identification of a quality mark for fish products of the Aegadian Islands AMP", commissioned by the Mediterranean Consortium. (Provision on behalf of Gaia Soc. Coop.).

**2003:** Participation in the LaguNet Project (Italian Network for Ecological Research in Coastal Areas and Transition Areas) with work on Capo Peloro (Ganzirri Lake) "Ganzirri Lake, north-eastern Sicily" of Bergamasco A., Azzaro M, Pulicano 'G., Cortese G., Sanfilippo M., Maugeri T., as shown on the website [www.dsa.unipr.it/lagunet/](http://www.dsa.unipr.it/lagunet/), part of the international LOICZ network (Land-Ocean Interactions in the Coastal Zone. (<http://www.loicz.org/products/publication/reports/index.html.en>))

**January - March 2003:** Geognostic surveys in the framework of the Project "Adaptation of the Port of Donnalucata (RG)", commissioned by the Sicilian Region - Department of Civil Protection, Eastern Sicily Service U.O.B. XVIII of Ragusa. (Provision on behalf of Gaia Soc. Coop.)

**December 2002:** Determination of the textural characteristics of the sediments within the Project "Recovery and environmental requalification of the stretch of coast between the Mazzeo and Fondaco Prete streams in the territory of Letojanni". Study commissioned by Geol. G. Randazzo (Provision on behalf of Gaia Soc. Coop.).

**September 2002:** Determination of textural characteristics in the context of the "Executive project of the 1st functional section of the general reconstruction and defense of the beaches, aimed at rebalancing the coastline along the municipal coastline of Giardini Naxos". Study commissioned by Geol. G. Randazzo (Provision on behalf of Gaia Soc. Coop.)

**June 2002:** Determination of the textural characteristics of the sediments within the Project "Interventions in defense of the inhabited areas of Rodia, San Saba and Acqualadroni and of the related infrastructures by means of beach nourishment and re-naturalization". Work commissioned by Studio Merlino-Tornatore. (Provision on behalf of Gaia Soc. Coop.)

**June - October 2002:** Chemical-physical and biological monitoring of the Red Tuna breeding plant in Giammoro, commissioned by the Company Pescazzurra S.p.A. of Messina. (Provision on behalf of Gaia Soc. Coop.)

**2002:** Participation in the University Research Program (PRA) of the Department of Animal Biology and Marine Ecology «Positive and negative interactions with benthic-demersal fish species, present along the coastal strip between Capo Peloro and Torrente annunziata (Strait of Messina), determined by the presence of lessepsian seaweed *Caulerpa taxifolia* (killer alga) ".

**July - December 2001:** Environmental impact study (V.I.A.) for the construction of an off-shore plant for the breeding of red tuna. Study commissioned by the Company Pescazzurra S.p.A. of Messina. (Provision on behalf of Gaia Soc. Coop.)

**July - December 2001:** Feasibility study for the construction of an off-shore plant for the breeding of red tuna. Study commissioned by the Company Pescazzurra S.p.A. of Messina. (Provision on behalf of Gaia Soc. Coop.)

**July 2001:** Sand sampling operations along the coast of Giardini Naxos for the analysis of the chemical-physical and microbiological characteristics of the sediments in order to assess the environmental compatibility of the sediments for the nourishment of the coast. (Provision on behalf of Gaia Soc. Coop.)

**April 2001:** Sampling operations of dredged material in the Port of Saline Joniche (Municipality of Montebello Jonico-RC). Commission commissioned by the Civil Engineering Department for Maritime Works of Reggio Calabria following the award of the tender. (Provision on behalf of Gaia Soc. Coop.)

**2001 - 2004:** Participation in the "Project Aphrodite" of the Ministry of the Environment, for the study of Zones A of the Sicilian and Calabrese Protected Marine Areas.

**2001:** Participation in the University Research Program (PRA), of the Department of Animal Biology and Marine Ecology «Protected Marine Areas (Zone A): environmental quality assessment, in two marine areas (Ciclopi Islands / CT - Capo Rizzuto / KR) in relation to the coastal impact ".

**2000 - 2001:** Participation in the execution of surveys, studies and sampling of samples, for "Analysis of the physical, chemical and bacteriological characteristics of the materials destined for unloading and for the identification and characterization of the unloading area of the material coming from the works of excavation of the Molo Nuremberg (Port of Messina) and of the port of Milazzo ". Commission commissioned by the Messina Port Authority following the award of the tender. (Provision on behalf of Gaia Soc. Coop.)

**November 26 - December 2, 2000:** Boarding on the "Coopernaut Franca" Oceanographic M / N for participation in the oceanographic campaign in the Egadi Islands Reserve, as part of the MURST project "Environmental analyzes in marine protected area: Egadi Islands", autumn campaign.

**October 2000:** Sampling operations of sand samples in the bay of Naxos and Recanati for a study aimed at a project to rebalance the municipal coastal strip of Giardini Naxos. Study commissioned by: Ing. F. Natoli, Ing. A. Pelle, Geol. G. Randazzo. (Provision on behalf of Gaia Soc. Coop.)

**July 2000:** Collection of sediment samples as part of the Environmental Impact Assessment (EIA) project related to the construction of a ferry port in the Tremestieri area. Commissioned by Amadeus S.p.A. (Provision on behalf of Gaia Soc. Coop.)

**20-22 June 2000:** Boarding on the M / N Oceanographic "Coopernaut Franca" for participation in the campaign at sea under the project MI.PA. of the Department of Animal Biology and Marine Ecology with the Nautilus Cooperative of Vibo Valentia "Cognitive surveys for the evaluation of lamellibranch shellfish shoals in the Calabrian coast section of Le Castella-Soverato".

**June 2000 - October 2001:** Environmental investigations to support the definition of the Environmental Impact Assessment methodology (V.I.A.) and the environmental characterization of the sites within the "Mariculture" project. Commissioned by the Ceom ScpA (Mediterranean Oceanological Center) of Palermo. (Provision on behalf of Gaia Soc. Coop.)

**2000-2002:** Participation in the V Triennial Plan of Fishing and Aquaculture in marine and brackish waters MI.PA. (Department of Animal Biology and Marine Ecology), aquaculture theme, project 5C107 «Research support for the development of aquaculture techniques for innovative species. Innovative production systems oriented to the mariculture of new species ".

**2000:** Participation in the University Research Program (PRA), Financial Year 2000 (Department of Animal Biology and Marine Ecology) «Biotic and abiotic anomalies of the coastal strip between Capo Peloro and Torrente Annunziata (Strait of Messina): the case of the "lessepsienne" seaweed *Caulerpa taxifolia* (killer seaweed) and its interactions with small fishing ".

**2000-2001:** Participation in the University Research Program (PRA) ex 60% (Department of Animal Biology and Marine Ecology) «Harmful algal blooms in Lake Ganzirri: environmental implications and possible reflections on human health» (fortnightly sampling). **1998-2000:** Participation in the IV Triennial Plan MI.PA. (Department of Animal Biology and Marine Ecology), aquaculture theme, project «Support of research for

the development of aquaculture techniques for innovative species. Innovative production systems oriented to the mariculture of new species (*Pagellus erythrinus*, *Pagellus bogaraveo*) »(seasonal sampling). **1998–1999:** Participation in the research program 40% MURST (Department of Animal Biology and Marine Ecology) «Conservation of biodiversity and sustainable management of the brackish biotopes of the Italian coasts», local theme: «Analysis – Study – Design, for an eco-friendly use of the brackish coastal environments of Ganzirri and Faro (North-Eastern Sicily) »(fortnightly sampling). **1997:** Participation in the autumnal oceanographic campaign within the research program 60% MURST (Department of Animal Biology and Marine Ecology) «Environmental conditions for the development of mariculture in the Gulf of Gaeta».

## **Participation in Project with SZN**

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**2023:** Participation in the project PO FEAMP SICILIA 2014-2020 Mis. 2.51 "Potenziamento della molluschicoltura siciliana nell'areale della laguna di Capo Peloro (ME) - Linea di intervento n. 1 Conservazione e valorizzazione dell'allevamento delle specie endemiche della molluschicoltura del messinese (*Mytilus* spp.)", collaborating in sampling, filtration and analysis of water samples for determination of nutrients, oxygen and TSM.

**2021-2022:** Participation in FEAMP MIPAF RESPoNSo (Riduzione Pesca faNtasma in Sicilia) Project. Stazione Zoologica Anton Dohrn, Naples.

**2019-2022:** Participation in "Marine Hazard Project (Sviluppo di tecnologie innovative per l'identificazione, monitoraggio, remediation di sorgenti di contaminazione naturale e antropica" - OR1), Codice identificativo: PON03PE\_00203\_1. CUP: B62F15000210005.

**2019-2023:** Participation in PO FEAMP CAMPANIA 2014-2020 Project "Innovazione, sviluppo e sostenibilità nel settore della pesca e dell'acquacoltura per la Regione Campania" (ISSPA), misure 1.26, 1.40 e 2.51. Stazione Zoologica Anton Dohrn, Naples.

**2019-2021:** Participation in IPANEMA Project (Potenziamento dell'infrastruttura ECCSEL – ERIC NatLib-Italy di Panarea) - PON Ricerca e Innovazione 2014-2020 (Cod.: PIR01\_00018). Stazione Zoologica Anton Dohrn, Naples.

**2019-2020:** Participation in "Potenziamento Ricerca e Infrastrutture Marine (EMBRC IT)" -PON PRIMA Calabria OR 8 Project. Stazione Zoologica Anton Dohrn, Naples.

## **CONFERENCES AND MEETINGS PARTECIPATION**

### **Conferences and Meetings Partecipation**

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- Mazara del Vallo (TP), Blue Sea Land Expo, 17-20 October 2019. Team SZN Stand.
- Seminar "Man and the butterfly, global scenarios and climate change" by Filippo Giorgi. Horcynus Lab Festival 2019, Messina, 25 September 2019.
- Messina, Parco Horcynus Orca, Morgana Vede - Festival dello Stretto 2018, 10 September 2018. Presentation entitled "The marine ecosystem of the Strait of Messina, the zoologists' paradise".
- Genova, CISEF (Villa Quartara), 11-12 December 2015 - 88th National Congress of the Italian Society of Experimental Biology (SIBS) "Biology and human health: aspects of pure and translational research"
- Syracuse, November 14th 2013 - IV Technical and Scientific Meeting S.I.P.I. "Rapidly growing marine species: breeding and health problems".
- Syracuse, 16 November 2013 - Workshop "Vibriosis: emerging pathology in marine fish and bivalve molluscs"
- Syracuse, 14-16 November 2013 - XIX National Conference S.I.P.I. Sala Paolo Borsellino, Palazzo Vermexio (Syracuse).
- Marsala (TP), 27-30 October 2010 - IV LaguNet Congress 2010 "Middle waters: complexity, vulnerability, management and heritage of knowledge", with the presentation in collaboration of a communication.
- Taormina, 22-23 October 2010 - Conference "Sicily: towards a new policy of coastal management", organized by the Presidency of the Sicilian Region.
- University of Messina, 1 July 2008 - Study Day on "Quality and sustainability in agri-food chains", carried out as part of the II level Master in "Food Quality and Environmental Operations Management-FQEOM".
- Chamber of Commerce Messina, 19 May 2007 - Conference "Enhancement of under-utilized fish species" organized by the Chamber of Commerce of Messina under the Regional Program for promotion and communication in the fishing sector for the year 2006.
- Faculty of Veterinary Medicine Messina, 30 March 2007 - Study meeting on "Ichthyopathology and mariculture: past, present and future".
- Palazzo della Provincia - Messina, 2 December 2006 - Conference "Research in the area of P.O.R. Ittios and P.O.R. Mare projects: promotion of fish products and resource management".
- Viareggio, 14-18 November 2006 - V National Conference of the CoNISMa (National Interuniversity Consortium for Sea Sciences) "The sea: centrality of interests in the XXI century. Italian scientific abilities and resources in competing", with the presentation in collaboration a two poster.

- Palermo, 18 October 2006 - Conference "The NOP Research in Objective 1 Regions: the experience in the Sicily region", organized by the Ministry of University and Research.
- University of Messina, 14-16 July 2006 - Conference "Ecosystem and habitat of the marine and lagoon environment" organized by the National Association for the Protection of the Environment (ANTA), Faculty of Sciences MM FF NN.
- Chamber of Commerce Messina, 9 May 2005 - Conference "Il pesce Negletto" organized by the Chamber of Commerce of Messina as part of the VI National Plan of Fishing and Aquaculture.
- Faculty of Veterinary Medicine Messina, May 6th 2005 - Seminar "Mariculture of innovative species: problems and prospects. Comparing experiences". Great Hall.
- Terrasini (PA) 18-22 October 2004 - Joint scientific meeting Co.N.I.S.Ma - A.I.O.L. "Natural, economic and legal sciences in the study and management of aquatic environments, with the presentation in collaboration of two posters.
- University of Messina, December 5, 2003 - National Conference "VIA and VAS: from project analysis to territorial control", organized by the Italian Society of Environmental Geology, the Order of Engineers of Messina and the Regional Order of Sicilian Geologists.
- Verona, 15-16 October 2003 - International Aquaculture Conference "Fish farming in Mediterranean Europe: quality for developing markets", with the presentation in collaboration of three posters.
- Certosa di Pontignano (Siena), 30 March-1 April 2003 - International Workshop on Sustainable Aquaculture "Animal Welfare, Human Health and Interactions with the Environment", organized by the University of Siena and the Italian Society of Marine Biology (SIBM).
- Vibo Valentia, 13 April 2002 - "Conference to present and discuss the results of the program of interventions for the assessment of the environmental conditions of Calabrian marine waters - Three-year period 1998-2000".
- Lipari, 17-20 September 2001 - "Afrodite System" Workshop on Italian Marine Protected Areas, organized by the Ministry of the Environment and CoNISMA
- Genova, 21-25 November 2000 - 2nd National Conference of Sea Sciences "Fluctuations-Anomalies-Recovery" organized by CoNISMA, with the presentation in collaboration of a poster.

2018 – CURRENT

### Conferences and Meetings Participation as SZN

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**5 may 2021** (15.00 - 17.30): Participation to Starfish Mission 2030: per una prospettiva italiana del mare. On line event, APRE - Agenzia per la Promozione della Ricerca Europea

**3 may 2021** (18.30 - 20.00): Participation to Webinar "Progetto Marine Hazard in collaborazione con SZN". Lancio del Progetto Marine Hazard in collaborazione con la Stazione Zoologica Anton Dohrn di Napoli per l'osservazione ed il censimento dei siti idrotermali sommersi costieri in Mediterraneo, organised by PADI EMEA with SZN Sicily Marine Centre.

**18th - 29th of January 2021**: Online conference Assemble 2021: Marine biological research at the frontie, organized by EMBRC.EU and Centre of Marine Sciences of Algarve (CCMAR Algarve).

**17-20 October 2019**: Mazara del Vallo (TP), Blue Sea Land Expo, Team SZN Stand.

### INTERNATIONAL PUBLICATIONS PEER REVIEWED WITH IF

2019-current

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1. **Sanfilippo M**, Albano M, Manganaro A, Capillo G, Spanò N, Savoca S. (2022) - Spatiotemporal Organic Carbon Distribution in the Capo Peloro Lagoon (Sicily, Italy) in Relation to Environmentally Sustainable Approaches. *Water*. 2022; 14(1):108. <https://doi.org/10.3390/w14010108>
2. Longo F., Malara D., Stipa M.G., Consoli P., Romeo T., **Sanfilippo M.**, Abbate F., Andaloro F., Battaglia P. (2021) - Age, Growth and Otolith Microstructure of the Spotted Lanternfish *Myctophum punctatum* Rafinesque 1810. *Journal of Marine Science and Engineering*, 9(8):801. <https://doi.org/10.3390/jmse9080801>
3. Spanò N., Di Paola D., Albano M., Manganaro A., **Sanfilippo M.**, D'Iglio C., Capillo G., Savoca S. (2021) - Growth performance and bioremediation potential of *Gracilaria gracilis* (Steentoft, L.M. Irvine & Farnham, 1995). *International Journal of Environmental Studies*, DOI: 10.1080/00207233.2021.1954775
4. Bottari T., Savoca S., Mancuso M., Capillo G., Panarello G., Bonsignore M., Crupi R., **Sanfilippo M.**, D'Urso L., Compagnini G., Neri F., Romeo T., Luna G.M., Spanò N., Fazio E. (2019) - Plastics occurrence in the gastrointestinal tract of *Zeus faber* and *Lepidopus caudatus* from the Tyrrhenian Sea. *Marine Pollution Bulletin* 146:408-416. DOI: 10.1016/j.marpolbul.2019.07.003.
5. Fazio F., Saoca C., **Sanfilippo M.**, Capillo G., Spano, N., Piccione G. (2019) - Response of vanadium bioaccumulation in tissues of *Mugil cephalus* (Linnaeus 1758). *Science of The Total Environment*, 689: 774-780. DOI: 10.1016/j.scitotenv.2019.06.476
6. Raffa C., Rizzo C., Strous M., De Domenico E., Sanfilippo M., Michaud L., Lo Giudice A. (2019). Prokaryotic Dynamics in the Meromictic Coastal Lake Faro (Sicily, Italy). *Diversity* 2019, 11, 37. [doi.org/10.3390/d11030037](https://doi.org/10.3390/d11030037)

1. Capillo G., Savoca S., Costa R., **Sanfilippo M.**, Rizzo C., Lo Giudice A., Albergamo A., Rando R., Bartolomeo G., Spanò N., Faggio C. (2018) -New Insights into the Culture Method and Antibacterial Potential of *Gracilaria gracilis*. *Marine Drugs*, 16(12): 492 (21 pp). DOI: [doi.org/10.3390/md16120492](https://doi.org/10.3390/md16120492)
2. Parrino V., Cappello T., Costa G., Cannavà C., **Sanfilippo M.**, Fazio F., Fasulo S. (2018) - Comparative study of haematology of two teleost fish (*Mugil cephalus* and *Carassius auratus*) from different environments and feeding habits. *The European Zoological Journal*, 85:1, 194-200, DOI: 10.1080/24750263.2018.1460694
3. Capillo G., Silvestro S., **Sanfilippo M.**, Fiorino E., Giangrosso G., Ferrantelli V., Vazzana I. and Faggio C. (2018) - Assessment of electrolytes and metals profile of the Faro Lake (Capo Peloro Lagoon, Sicily, Italy) and its impact on *Mytilus galloprovincialis*. *Chemistry and Biodiversity*. doi: [10.1002/cbdv.201800044](https://doi.org/10.1002/cbdv.201800044).
4. Capillo G., **Sanfilippo M.**, Aliko V., Spanò N., Spinelli A., Manganaro A. (2017). *Gracilaria gracilis*, source of agar: a short review. *Current Organic Chemistry* 21(5): 380-386. DOI: 10.2174/1385272820666161017164605.
5. **Sanfilippo M.**, Capillo G., Spanò N., Manganaro A. (2016). Evaluation of Water Variables in No-take Zone of Ustica Marine Protected Area (Southern Tyrrhenian Sea. *Brazilian Archives of Biology and Technology*, v.59: e160330, Jan/Dec 2016: 1-7. DOI: 10.1590/1678-4324-2016160330.
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6. Fazio F., Faggio C., Marafioti S., Torre A., **Sanfilippo M.**, Piccione G. (2012) - Comparative study of haematological profile on *Gobius niger* in two different habitat sites: Faro Lake and Tyrrhenian Sea. *Cahiers de Biologie Marine*, 53: 213-219. ISSN 2262-3094. DOI: 10.21411/CBM.A.3819123.
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## PUBLICATIONS IN EXTENSO IN JOURNALS WITHOUT IF

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1. Arcadi E., Rastelli E., Tangherlini M., Rizzo C., Mancuso M., Sanfilippo M., Esposito V., Andaloro F., Romeo T. (2022). Shallow-Water Hydrothermal Vents as Natural Accelerators of Bacterial Antibiotic Resistance in Marine Coastal Areas. *Microorganisms* 2022, 10(2), 479; <https://doi.org/10.3390/microorganisms10020479>.
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5. Silvestro S., Capillo G., **Sanfilippo M.**, Fiorino E., Giangrosso G., Ferrantelli V., Dara S., Vazzana I., Faggio C. (2017) - Appraisal of the abiotic and biotic framework of Faro Lake (Messina, Sicily). *Journal of Biological Research*, Vol. 90, S1: 14.
6. Capillo G., **Sanfilippo M.**, Li Volsi R., Spanò N., Manganaro A. (2016) - The importance of research in economic and environmental exploitation of a fragile transitional ecosystem: the Ganzirri Lagoon (NE Sicily). *Journal of Biological Research*, 89 (S1): 2.
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10. Capillo G., Genovese G., Monteleone A., Morabito M., **Sanfilippo M.**, Manganaro A. (2014) - From culture to application. Agar from *Gracilaria gracilis* of Ganzirri lagoon (Sicily, Italy). *Journal of Biological Research*, vol. 87 S1: 9. DOI: 10.4081/jbr.2014.s1.
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15. **Sanfilippo M.**, Reale A., Ziino M., Romeo V., Lembo E., Manganaro A. (2011) - Chemical composition and nutritional value of *Engraulis encrasicolus* (Linnaeus, 1758) caught by driftnet "menaide" along Sicilian coast: a natural food for Mediterranean diet. *World Journal of Fish and Marine Sciences*, -3 (1): 44-50. ISSN 2078-4589.
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## CONFERENCE PROCEEDINGS

2014 – CURRENT

### Conference Proceedings 2015-current

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- Arcadi E., Rizzo C., Scutтери V., Tangherlini M., Sanfilippo M., Andaloro F., Romeo T., Calogero R., Esposito V. Metal-tolerant bacteria for monitoring Mediterranean Shallow Hydrothermal environments: the case studies of Panarea. 2022 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea) | 978-1-6654-9942-2/22/\$31.00 ©2022 IEEE | DOI: 10.1109/METROSEA55331.2022.9950824
- Arcadi E., Mancuso M., Sanfilippo M., Malara D., Andaloro F., Esposito V., De Vittor C., Romeo T. Multidrug-resistant marine bacteria isolated from the shallow hydrothermal vent systems of Panarea (Aeolian Islands). Evolmar, Marine Evolution 1st Italian Congress online 23-25 November 2020
- Mancuso M., Arcadi E., Malara D., Sanfilippo M., Battaglia P., Andaloro F., Spanò N., Romeo T. A pre-screening of the presence of antibiotics in traces in two large pelagic fish in the Strait of Messina. Evolmar, Marine Evolution 1st Italian Congress online 23-25 November 2020
- Capillo G., Savoca S., Rizzo C., Sanfilippo M., Spanò N. (2018) - *Gracilaria gracilis* of Capo Peloro lagoon, a powerful product from sustainable aquaculture. 8th EuroLag (European Coastal lagoons Symposium), Athens, Greece, 20-23 March 2018: 32.
- Capillo G., Sanfilippo M., Li Volsi R., Spinelli A., Panarello G., Spanò N., Manganaro A. (2017) - *Gracilaria gracilis* (Gracilariales, Rhodophyta) from Ganzirri Lagoon, state of art and perspectives. XIII Incontro dei Dottorandi in Ecologia e Scienze Ambientali (SIte-AIOL-LaguNet), Palermo 3-5 Maggio 2017.
- Capillo G., Sanfilippo M., Palato S., Manganaro A. (2015) – Growth of *Gracilaria gracilis* in fish farming and phytoremediation. 88° Congresso Nazionale Società Italiana di Biologia Sperimentale (SIBS), Genova 11-12 dicembre 2015: 98-100. DOI: 10.13140/RG.2.1.5141.4804.
- Sanfilippo M., Capillo G., Palato S., Manganaro A. (2015) – Environmental quality of Ustica Marine Protected Area (Sicily, Italy). 88° Congresso Nazionale Società Italiana di Biologia Sperimentale (SIBS), Genova 11-12 dicembre 2015: 129-131. DOI: 10.13140/RG.2.1.2520.0404.
- Sanfilippo M., Capillo G., Cortese G., Monteleone A., Manganaro A. (2015) - Organic carbon in the brackish environments of the Oriented Natural Reserve of Capo Peloro (Sicily, Italy). 2nd Young Natural Scientists' Meeting, Parigi 4-6 febbraio 2015. doi: 10.13140/2.1.2744.6563.
- Monteleone A., Capillo G., Sanfilippo M., Manganaro A. (2015) - Effects of temperature on the density of *Gracilaria gracilis* in the salted pond of Ganzirri (NE Sicily): Global changes? 2nd Young Natural Scientists' Meeting, Parigi 4-6 febbraio 2015. DOI: 10.13140/2.1.2482.5123.
- Capillo G., Lauriano E.R. Sanfilippo M., Icardo J., Zaccone G. (2015) - Neurotransmitter localization in the airway putative oxygen –sensitive chemoreceptor cells of air breathing fishes with particular reference to nitric oxide. 2nd Young Natural Scientists' Meeting, Parigi 4-6 febbraio 2015. DOI: 10.13140/2.1.5103.9522.

2010 – 2014

### Conference Proceedings 2011-2014

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- Albano M., Capillo G., Cortese G., Monteleone A., Palato S., Sanfilippo M., Manganaro A. (2014) - Culture of *Gracilaria gracilis* for Agar extraction (food uses) and aquaculture waste water treatment. LET'S Conference (Leading Enabling Technologies for Societal Challenges), Bologna 29 settembre-1 ottobre 2014. DOI: 10.13140/2.1.1208.5768.
- Sanfilippo M., Marino F., Manganaro A., Faggio C., Genovese G., Gugliandolo C., Morabito M., Fortino G., Santulli A. (2013) - Innovaqua "Technological Innovation For The Improvement Of Productivity And Competitiveness Of Sicilian Aquaculture": Aspects Of Experimental Biology And Prevention Of Diseases. XIX Congresso Società Italiana di Patologia Ittica (SIPI) – Siracusa, 14-16 Novembre 2013. DOI: 10.13140/RG.2.1.5189.0969.
- Sanfilippo M., Manganaro A., Messina C., Renda G., Santulli A. (2013) – Preliminary Investigations On *Gracilaria Gracilis* Cultivation Techniques And Extraction Of Bioactive Compounds With Antioxidant Activity. Libro Degli Abstracts 86° Congresso Società Italiana di Biologia Sperimentale (SIBS) - Palermo, 24-25 Ottobre 2013: 165-166. DOI:10.13140/RG.2.1.2173.9285.
- Torre A., Sanfilippo M., Trischitta F., Faggio C. (2013) - Effect of Sodium Dodecyl Sulfate on RVD of digestive cells of *Mytilus galloprovincialis*. Book of Abstracts 64° Congresso Società Italiana di Fisiologia (SIFI). Portonovo, Ancona 18-20 Settembre 2013, pag. 140. DOI: 10.13140/RG.2.1.2567.6560.
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- Rinaldi A., Montalto V., Palmeri V., Sanfilippo M., Sarà G., Manganaro A. (2012). Stima delle riserve energetiche di due specie ittiche (*Aphanius fasciatus* e *Atherina boyeri*) delle lagune Siciliane. Atti XXI Congresso Società Italiana di Ecologia (S.It.E.). Alessandria 10-13 settembre 2012, pag. 179. DOI: 10.13140/RG.2.1.4991.9762.

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Rinaldi A., Spina C., Montalto V., Palmeri V., Di Palma A., Sanfilippo M., Sarà G., Manganaro A. (2011). Limiti di tolleranza termica in *Aphanius fasciatus*. Atti XXI Congresso Società Italiana di Ecologia (S.It.E.). Palermo 3-7 ottobre 2011, pag. 162. DOI: 10.13140/RG.2.1.1190.8882.

1999 – 2010

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Reale A., Ziino M., Sanfilippo M., Ottolenghi F., Pelusi P. (2004) – Indagine sulla filiera pesca al fine della qualificazione dei prodotti ittici delle Isole Egadi. Atti Incontro scientifico congiunto CoNISMa – AIOL "Le scienze naturali, economiche giuridiche nello studio e per la gestione degli ambienti". Città del Mare-Terrasini (Palermo), 18-22 ottobre 2004, pagg. 161-162. DOI: 10.13140/RG.2.1.1715.1769.

De Sossi V., Tribulato K., Arigo' C., Modica A., Reale A., Sanfilippo M. (2003) – Off-shore fish farming in Capo d'Orlando area (Messina, Tyrrhenian Sea): the effect on the benthic communities. Book of abstract International Aquaculture Conference - Verona 15-16 ottobre 2003, pag. 64. DOI: 10.13140/RG.2.1.4860.9046.

Reale A., Sanfilippo M., De Sossi V., Tribulato K., Manganaro A., Monaco S., Battaglia P., Arigo' C. (2003) – "Fattening" experimentation of *Thunnus thynnus* (L. 1758) in North Eastern Sicily (Tyrrhenian Sea). Book of abstract International Aquaculture Conference - Verona 15-16 ottobre 2003, pag. 80. DOI: 10.13140/RG.2.1.1453.0329.

Tribulato K., De Sossi V., Arigo' C., Modica A., Reale A., Sanfilippo M. (2003) – Seasonal changes in the benthic communities induced by fish-farming in the Gulf of Castellammare (Trapani, Tyrrhenian Sea). Book of abstract International Aquaculture Conference - Verona 15-16 ottobre 2003, pag. 83. DOI: 10.13140/RG.2.1.2763.7525.

Cortese G., Pulicanò G., Manganaro A., Potoschi A., Giacobbe S., Giacobbe M.G., Gangemi E., Sanfilippo M., Spano' N. (2000) – Fluttuazioni ed anomalie abiotiche e biotiche nei Pantani di Capo Peloro. Atti 2° Congresso Nazionale delle Scienze del Mare (CoNISMa) Genova, 22-25 novembre 2000, pag. 167-168. DOI: 10.13140/RG.2.1.4453.3521.

## TECHNICAL REPORTS

### Technical reports

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1. Croce E.A., **Sanfilippo M.**, Schiera D., Capitano D. (2018) - Relazione Monitoraggio Invasi 2017-2018 ai sensi della Direttiva Quadro sulle acque (2000/60/CE). ARPA Sicilia, ST Enna

2. Manganaro A. & **Sanfilippo M.** (2009)– Analisi qualitativa del novellame di popolazioni ittiche durante il periodo di autorizzazione alla pesca in due zone della Sicilia (Golfo di Patti-Tirreno Orientale, Sciacca-Stretto di Sicilia). Rapporto sulla redazione dei "Piani di Gestione" da adottare nel quadro delle azioni previste dal Reg.(CE) 1967/2006, Reg(CE) 2371/2002 e Reg.(CE) 1198/2006, pp.25.

3. Ziino M., Fortino L., Manganaro A., Palmegiano G.B., Condurso C., Daprà F., Gai F., Lembo E., Peiretti P.G., Romeo V., **Sanfilippo M.**, Sburlati D. (2008). Tecnologie innovative per il miglioramento della "qualità" delle carni di una nuova specie (*Pagrus pagrus*) per l'industria acquicoltura. *Rapporto POR 2000-2006*, mis. 3.14: pp. 1-104.

3. Manganaro A., Cortese G., Ziino M., Potoschi A., Pulicanò G., Reale A., **Sanfilippo M.**, Battaglia P. (2003). Sistemi di produzione innovativi orientati alla maricoltura di nuove specie. *V Piano Triennale della Pesca e dell'Acquicoltura in acque marine e salmastre*. Rapporto finale: pp 1-78.

## NUMERICAL DATA PUBLICATIONS AND ISI SCIENTIFIC PRODUCTION

### Numerical data publications

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H-Index: 16

Total citations: **1225**  
Total IF: **47,655**  
Reference: **Google Scholar Citation**  
Date: **27/02/2023**

Total number of publications: **40**  
ISI publications with IF: **23**  
ISI publications without IF: 9  
N° Publications on Scopus: **29**  
Year obtained PhD: **2004**  
Year first ISI publication: **2006**  
Scientific ISI publication normalised by year of first publication: **1,5**  
Scientific ISI publication normalised by year obtained PhD: **1,3**  
Scientific ISI publication normalised in the last 3 years: **2,7**

## **DECLARATION**

### **Declaration**

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The undersigned is aware that, pursuant to art. 26 of Law 15/68, and Articles. 46 and 47 of Presidential Decree 445/2000, false statements, falsified acts and use of false acts are punishable under the Penal Code and special laws. In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.