

## Marilena Sanfilippo



Born in Messina on 27/12/1974

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**Current Position:** Collaboratore TER VI livello

**Current Affiliation:**

Section Research Infrastructures for Marine Biological Resources (RIMAR)  
Stazione Zoologica Anton Dohrn, Sicily Marine Centre Messina (Italy)

### Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
"Maurolico" Classic High School, Messina (Italy)	Student	1988-1993	Classical high school Diploma
University of Messina, Messina (Italy)	Master (Laurea)	1994-2000	Degree in Biological Sciences, Bio-Ecological curriculum
University of Messina, Messina (Italy)	Ph.D. in "Environmental Sciences: Marine Environment and Resources" XVI Cycle.	2000-2004	Anthropic impact in three Protected Marine Areas: Ustica Island (PA) - Ciclopi Islands (CT) - Capo Rizzuto (KR)
Department of Animal Biology and Marine Ecology, University of Messina, Messina (Italy)	Postdoc	2009-2011	Organic carbon in the brackish environments of the Capo Peloro Natural Reserve
Department of Animal Biology and Marine Ecology, University of Messina, Messina (Italy)	Research fellow	2006-2008	Chemical and physical analysis of marine waters, use of scientific instruments such as TOC analyzer and HPLC
University of Messina, Faculty of Veterinary Sciences, Messina (Italy)	Research fellow	2014-2016	1) <i>Gracilaria sp.</i> in wastewater from breeding plants, abatement tests for pollutant loads with algal cultures and extraction of bioactive compounds; 2) Support activities at the experimental centre for the management of stocks of <i>Seriola dumerili</i> broodstock
ARPA Sicilia, Enna (Italy)	Biologist expert in biology of internal waters	2016-2018	Phytoplankton sampling and determination with identification of algal species,

			counting and determination of the biovolume with calculation of the final ecological quality index. Measure of hydrological parameters using a multiparametric probe.
Stazione Zoologica Anton Dohrn, RIMAR Section, Messina, Italy	Technical collaborator	2019-present	Technical collaborator Research institutes Level VI

### **Appointments and awards**

2016-present: Member of Editorial Board of Mathews Journal of Pharmaceutical Science.

2019-present: Member of Editorial Board of Research and Advances: Aquatic Sciences.

2019-present: Member of Editorial Board of Aquaculture and Fisheries Studies.

2016-present: Referee for Turkish Journal of Fisheries and Aquatic Sciences

2016-present: Referee for Fish and Shellfish Immunology

2016-present: Referee for Annals of Marine Biology and Research

2018-present: Referee for Diversity

2018-present: Referee for Journal of Food Science & Technology

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

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

### **Other**

2016-present: 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

2011-present: 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, FEP, 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-present: Membership of the LaguNet Association

Participant in numerous research projects in collaboration with University of Messina

Participation in numerous national and international conferences and congresses

### **Students' Supervision**

PhD supervisor of several Ph.D. students, Postdoctoral thesis and doctoral student support, educational laboratories and theoretical-practical exercises

### **Publications**

Author of 32 publications on ISI-journals (h-index: 16)

Google Scholar citation:

\_\_\_\_\_ Tutte Dal 2017

<u>Citazioni</u>	1073	895
<u>Indice H</u>	16	15

**Peer-reviewed publications:**

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>
2. **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>
3. 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>
4. 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
5. 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.
6. 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
7. 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)
8. 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)
9. 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
10. 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).
11. 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. 10.2174/1385272820666161017164605.
12. **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.
13. Fazio F., Marafioti S., **Sanfilippo M.**, Casella S., Piccione G. (2016) - Assessment of immune blood cells and serum protein levels in *Mugil cephalus* (Linnaeus, 1758), *Sparus aurata* (Linnaeus, 1758) and *Dicentrarchus labrax* (Linnaeus, 1758) collected from the Tyrrhenian sea coast (Italy). *Cahiers de Biologie Marine*, Vol. 57: 235-240. DOI: 10.21411/CBM.A.D1C11DD2.
14. Maisano M., Natalotto A., Cappello T., Giannetto A., Oliva S., Parrino V., **Sanfilippo M.**, Mauceri A. (2016). Influences of Environmental Variables on Neurotransmission, Oxidative System, and Hypoxia Signaling on Two Clam Species from a Mediterranean Coastal Lagoon. *Journal of Shellfish Research*, 35 (1): 41-49. DOI:10.2983/035.035.0106.
15. Pagano M., Capillo G., **Sanfilippo M.**, Palato S., Trischitta F., Manganaro A., Faggio C. (2016) - Evaluation of Functionality and Biological Responses of *Mytilus galloprovincialis* after Exposure to Quaternium-15 (Methenamine 3-Chloroallylochloride). *Molecules* 2016, 21(2), 144. doi:10.3390/molecules21020144.
16. Rinaldi A., Montalto V., Lika K., **Sanfilippo M.**, Manganaro A., Sarà G. (2014) - Estimation of dynamic energy budget parameters for the mediterranean toothcarp (*Aphanius fasciatus*). *Journal of Sea Reserch*, 94: 65-70. doi: 10.1016/j.seares.2014.05.006.
17. Messina C.M., Faggio C., Laudicella A.V., Sanfilippo M., Trischitta F., Santulli A. (2014) - Effect of sodium dodecyl sulfate (SDS) on stress response in the Mediterranean mussel (*Mytilus Galloprovincialis*): Regulatory volume

- decrease (Rvd) and modulation of biochemical markers related to oxidative stress. *Aquatic Toxicology*, 157: 94–100. doi: 10.1016/j.aquatox.2014.10.001.
18. Rinaldi A., Montalto V., Manganaro A., Mazzola A., Mirto S., **Sanfilippo M.**, Sarà G. (2014) - Predictive mechanistic bioenergetics to model habitat suitability of shellfish culture in coastal lakes. *Estuarine, Coastal and Shelf Science*, 144: 89-98. doi: 10.1016/j.ecss.2014.04.013.
  19. Fazio F, Faggio C., Marafioti S., Torre A., **Sanfilippo M.**, Piccione G. (2013) - Effect of water quality on hematological and biochemical parameters of *Gobius niger* caught in Faro lake (Sicily). *Iranian Journal of Fisheries Sciences*, 12(1): 219- 231. DOI: 10.22092/ijfs.2018.114273
  20. Fazio F, Marafioti S., Torre A., **Sanfilippo M.**, Panzera M., Faggio C. (2013) - Haematological and serum protein profiles of *Mugil cephalus*: effect of two different habitats. *Ichthyological Research*, Vol. 60, Issue 1: 36-42. ISSN:1341-8998. DOI 10.1007/s10228-012-0303-1.
  21. 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.
  22. Sarà G., Lo Martire M., **Sanfilippo M.**, Pulicanò G., Cortese G., Mazzola A., Manganaro A., Pusceddu A. (2011) - Impacts of marine aquaculture at large spatial scales: evidences from N and P catchment loading and phytoplankton biomass. *Marine Environmental Research* 71: 317-324. doi:10.1016/j.marenvres.2011.02.007. (I.F. 2,337). ISSN 0141-1136.
  23. Manganaro A., Pulicano' G., Reale A., **Sanfilippo M.**, Sara' G. (2009) – Filtration pressure by bivalves affects the trophic conditions in Mediterranean shallow ecosystems. *Chemistry and Ecology*, Vol. 25, Issue 6: 467-478. ISSN 0275-7540. doi:10.1080/02757540903325120.
  24. Reale A., Ziino M., Ottolenghi F., Pelusi P., Romeo V., Condurso C., **Sanfilippo M.** (2006) – Chemical composition and nutritional value of some marine species from Egadi Islands. *Chemistry and Ecology*, Vol. 22 - Suppl.1/August 2006, pagg. 173-179. doi:10.1080/02757540600679290.