

## Pietro Battaglia



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**Current Position:** Researcher

### **Current Affiliation:**

Stazione Zoologica Anton Dohrn (SZN) - National Institute of Biology, Ecology and Marine Biotechnology

Integrative Marine Ecology Department

Sicily Marine Centre - Villa Pace - Contrada Porticatello 29, cap 98167 Messina (Italy)

### **Education/Training/Experience**

<b>Institute and Location</b>	<b>Degree / Function</b>	<b>Year</b>	<b>Field of Study</b>
Department of Animal Biology and Marine Ecology, University of Messina, Italy	MSc (Laurea)	1995-2000	Biological sciences
Department of Animal Biology and Marine Ecology, University of Messina, Italy	Ph.D.	2002-2005	Fishery management and resources
ICRAM, Laboratory of Milazzo, Italy	Research grant	2006-2008	Marine Ecology
ISPRA, Laboratory of Milazzo, Italy	Research contract (assegno ricerca)	2010-2011	Marine Ecology
ISPRA, Laboratory of Milazzo, Italy	Researcher	2011-2018	Fishery management and resources, Fish ecology and biology
Stazione Zoologica Anton Dohrn, Milazzo, Italy	Researcher	2018-present	Fish and cephalopod taxonomy, ecology and biology ; Fishery management and resources

## **Appointments and awards**

2023-current: Member of the Deep-Sea Biology Society (<http://dsbsoc.org/>)

2019: National Scientific Qualification as Associate Professor (*II fascia*) in Ecology (scientific sector 05/C1 - D.D. 1532/2016)

2002-2023: Member of the Italian Society of Marine Biology (Società Italiana di Biologia Marina – S.I.B.M.)

2002-current: Member of the Italian National Order of Biologists (Ordine Nazionale dei Biologi – O.N.B.).

2016-2018: Member of the Governance Team of Local Management Plan of Licata for fishery in Sicily (Italy) – FEAMP 2014-2020

2016-2018: Member of the Scientific Team of the Plastic Buster Project/Consortium (<http://plasticbusters.unisi.it/>)

2015-2016: ISPRA contact person for the Laboratory of Ichthyology and Marine Ecology from 09 July 2015 to 31 December 2016.

2012-2018: ISPRA scientific-technical contact person for Marine Strategy Framework Directive with regard to Descriptor 3 (Commercially exploited fish and shellfish) and ECAP Process of UNEP/MAP with regard to Ecological Objective 3 (Populations of commercially exploited fish and shellfish).

## **Students' Supervision**

Tutor and co-tutor of PhD students, Bachelors' or Masters' students.

## **Publications**

Author of 101 publications on ISI-journals (h index: 29) and 1 international report

### ***List of publications of the last 10 years:***

#### **Peer-reviewed**

Pedà C., Rizzo C., Laface F., Giannarelli S., Battaglia P., Romeo T., Lo Giudice A., 2024. First evidence of microplastic ingestion by the European grayling, *Thymallus thymallus*, in sub-Arctic regions: Insights on plastic pollution and preliminary risk assessment in the Teno River (Finland). *Science of The Total Environment*, 957: 177603. <https://doi.org/10.1016/j.scitotenv.2024.177603>

Russo, L., Bellardini, D., De Luca, D., Del Gaizo G., Zampicinini G., Battaglia P., Liguori G., De Luca P., D'Alelio D., 2024. Zoom into a twilight zone: a biodiversity survey of the Dohrn Canyon (Mediterranean Sea) through environmental DNA metabarcoding. *Community Ecology*. <https://doi.org/10.1007/s42974-024-00207-4>

Bacchiani C., Ammendolia G., De Matteo S., Cavallaro M., Fanelli E., Battaglia P. 2024. New Documented Records of the Mesopelagic Fish *Valenciennellus tripunctulatus* (Sternoptychidae) in the Strait of Messina and a Review of Its Mediterranean Occurrences. *Fishes*, 9, 397. <https://doi.org/10.3390/fishes9100397>

- Villari A., Ammendolia G., Scuderi D., Battaglia P., 2024. New stranding records of *Janthina janthina* (Linnaeus, 1758) (Gastropoda Epitoniidae) in the central Mediterranean Sea (Strait of Messina, Italy) and observations on its behaviour. *Biodiversity Journal*, 15 (2): 311–317. <https://doi.org/10.31396/Biodiv.Jour.2024.15.2.311.317>
- Guo L., Malara D., Battaglia P., Waiho K., Davis D.A., Deng Y., Shen Z, Rao K., 2024. Turnovers of sex-determining mutation in the golden pompano and related species provide insights into microevolution of undifferentiated sex chromosome. *Genome Biology and Evolution*, 16(3), evae037. <https://doi.org/10.1093/gbe/evae037> WOS:001180124600001
- Malara D., Battaglia P., Arostegui M.C., Dale J.J., Block B.A., Braun C.D., Brogna M., Greco S., Romeo T. 2024. Satellite tagging insights into the seasonal movements and behavior of Mediterranean spearfish (*Tetrapturus belone*, Istiophoridae). *Front. Mar. Sci.* 11:1362169. <https://doi.org/10.3389/fmars.2024.1362169>
- Lattanzi P., Pulcinella J., Battaglia P., Di Cintio A., Ferrà C., Di Franco A., Tassetti A.N., 2024. Bridging the gap in fishing effort mapping. A spatially-explicit fisheries dataset for Campanian MPAs, Italy. *Scientific Data* 11, 54. <https://doi.org/10.1038/s41597-023-02883-9>
- Battaglia P., Canese S., Salvati E., Greco S., 2023. In situ observations of three deep-sea cephalopods in the central Mediterranean Sea. *Marine Biology*, 170: 151. <https://doi.org/10.1007/s00227-023-04264-7>
- Granata, A., Bergamasco, A., Zagami, G., Guglielmo, R., Bonanzinga, V., Minutoli, R., Geraci, A., Pagano, L., Swadling, K., Battaglia, P., Guglielmo, L., 2023. Daily vertical distribution and diet of *Cyclothone braueri* (Gonostomatidae) in the Polcevera submarine canyon (Ligurian Sea, north-western Mediterranean), *Deep-Sea Research Part I*, 199, 104113. <https://doi.org/10.1016/j.dsr.2023.104113>
- Grech, D., Ascitutto, E., Bakiu, R., Battaglia, P., Ben-Grira, C., Çamlık, Öznur Y., Cappuccinelli, R., Carmona, L., Chebaane, S., Crocetta, F., Desiderato, A., Domenichetti, F., Dulčić, J., Fasciglione, P., Galil S. , B., Galiya, M. Y., Hoffman, R., Langeneck, J., Lipej, L., Enric Madrenas, E. M., Martinelli, M., Martín-Hervás, M. D. R., Masala, C., Mastrototaro, F., Mavric, B., Montesanto, F., Mucciolo, S., Othman, R. M., Semperevalverde, J., Soldo, A., Spinelli2, A., Taşkin, E., Tiralongo, F., Oso, A., Trainito, E., Trkov, D., Vitale, D., & Zacchetti, L. (2023). New records of rarely reported species in the Mediterranean Sea (July 2023). *Mediterranean Marine Science*, 24(2), 392–418. <https://doi.org/10.12681/mms.30401>
- Longo F., Malara D., Ascitutto E., Battaglia P., 2023. Growth of the mesopelagic fish *Vinciguerria attenuata* (Cocco, 1838) in the Strait of Messina (central Mediterranean Sea). *Journal of Marine Science and Engineering*, 11, 1055. <https://doi.org/10.3390/jmse11051055>
- Battaglia, P., Pedà, C., Rizzo, C., Stipa, M.G., Arcadi, E., Longo, F., Ammendolia, G., Cavallaro, M., Rao, I., Villari, A., Calogero, R., Consoli, P., Sinopoli, M., Andaloro, F., Romeo, T., 2023. How rare are Argonautoidea octopuses in the Mediterranean? New data from stranding events, stomach contents and genetics. *Biology*, 12, 420. <https://doi.org/10.3390/biology12030420>
- Sciutteri V., Pedà C., Longo F., Calogero R., Cangemi G., Pagano L., Battaglia P., Nannini M., Romeo T., Consoli P., 2023. Integrated approach for marine litter pollution assessment in the southern Tyrrhenian Sea: Information from bottom-trawl fishing and plastic ingestion in deep-

- Tiralongo, F., Akyol, O., Al Mabruk, S. A., Battaglia, P., Beton, D., Bitlis, B., Borg, J. A., Bouchoucha, M., Çinar, M. E., Crocetta, F., Dragičević, B., Dulčić, J., Evangelopoulos, A., Jevans, J., Fortič, A., Gauff, R. P., Georgiadis, C. G., Gökoğlu, M., Daniele Grech, D., Guy-Haim, T., Huseyinoglu, M. F., Lombardo, A., Marletta, G., Mastrototaro, F., Montesanto, F., Nunes, F., Özgül, A., Öztürk, B., Rammou, D.-L., Scuderi, D., Terbiyik Kurt, T., Trainito, E., Trkov, D., Ulman, A., Ünal, V., Velasquez, X., 2022. New Alien Mediterranean Biodiversity Records (August 2022). *Mediterranean Marine Science*, 23(3), 725–747. <https://doi.org/10.12681/mms.31228>
- Battaglia P., Pedà C., Malara D., Milisenda G., MacKenzie B.R., Esposito V., Consoli P., Vicchio T.M., Stipa M.G., Pagano L., Longo F., Romeo T., 2022. Importance of the lunar cycle on mesopelagic foraging by Atlantic bluefin tuna in the upwelling area of the Strait of Messina (central Mediterranean Sea). *Animals*, 12, 2261. <https://doi.org/10.3390/ani12172261>
- Calogero R., Rizzo C., Arcadi E., Stipa M.G., Consoli P., Romeo T., Battaglia P. 2022. Isolation and identification of luminescent bacteria in deep sea marine organisms from Sicilian waters (Mediterranean Sea). *Journal of Marine Science and Engineering*, 10, 1113. <https://doi.org/10.3390/jmse10081113>
- Stipa M.G., Longo F., Ammendolia G., Romeo T., Battaglia P., 2022. New data on *Trachipterus trachipterus* Gmelin, 1789 and *Zu cristatus* (Bonelli, 1820) (Pisces: Trachipteridae) from the Mediterranean Sea. *Acta Adriatica*, 63 (1): 65-74. <https://doi.org/10.32582/aa.63.1.7>
- Kousteni, V., Anastasiadis, A., Bariche, M., Battaglia, P., Bonifazi, A., Četković, I., Chimienti, G., Colombo, M., Constantinou, C., Maria, Dalyan, C., Dogrammatzi, A., Domenichetti, F., El Zrelli, R., Fernández-Alías, A., Kampouris, T.E., Kesici, N.B., Küpper, C.F., Lipej, L., Mancini, E., Manunza, B., Marcos, C., Mavrič, B., Mavruk, S., Mutlu, E., Özvarol, Y., Papadimitriou, E., Pešić, A., Pérez-Ruzafa, A., Pey, A., Poursanidis, D., Rizgalla, J., Samaha, Z., Stipa, M.G., Trkov, D., Türeli, C., Ventura, P., Yacoubi, L., Zacchetti, L., Zava, B., 2022. New records of rare species in the Mediterranean Sea (May 2022). *Mediterranean Marine Science*, 23(3), 417–446. <https://doi.org/10.12681/mms.28372>
- Battaglia P., Stipa M.G., Longo F., Cavallaro M., Ammendolia G., De Matteo S., Romeo T., 2022. New data on the stomiid teleost *Bathophilus nigerrimus* from Mediterranean waters. *Journal of Ichthyology*, 62, 519–527. <https://doi.org/10.1134/S0032945222040026>
- MacKenzie B.R., Addis P., Battaglia P., Consoli P., Andaloro F., Sarà G., Nielsen A., Romeo T., 2022. Neglected fishery data sources as indicators of pre-industrial ecological properties of Mediterranean swordfish (*Xiphias gladius*, Xiphiidae). *Fish and Fisheries*, 24(4), 829-846. <https://doi.org/10.1111/faf.12651>
- Guo, L., Yang, J. W., Liu, B., Malara, D., Battaglia, P., Waiho, K., Zhang N., Zhu K., Guo H., Liu B., Zhao F.C., Zhang D., Jiang, S., 2022. Turnover of sex defining mutation provides an insight into evolution of sex chromosomes in the golden pompano (*Trachinotus ovatus*). *Authorea*, November 16, 2021 <https://doi.org/10.22541/au.163706527.77995768/v1>
- Bottari T., Mancuso M., Pedà C., De Domenico F., Laface F., Schirinzi G.F., Battaglia P., Consoli P., Spanò N., Greco S., Romeo T., 2022. Microplastics in the bogue, Boops boops: A snapshot

of the past from the southern Tyrrhenian Sea. *Journal of Hazardous Materials*, 424, Part D, 127669, <https://doi.org/10.1016/j.jhazmat.2021.127669>

- Di Cintio A., Labanchi L., Spagnolo M., Musella G., Romeo T., Garozzo V., Di Genio S., Riginella E., Andaloro F., Milisenda G., Di Franco A., Battaglia P. 2022. Fishing capacity in Southern Italy: An insight into the status and trends of the Campanian fishing fleet. *Regional Studies in Marine Science*, 49, 102102. <https://doi.org/10.1016/j.rsma.2021.102102>
- Pedà C., Longo F., Berti C., Laface F., De Domenico F., Consoli P., Battaglia P., Greco S., Romeo T., 2022. The waste collector: information from a pilot study on the interaction between the common octopus (*Octopus vulgaris*, Cuvier, 1797) and marine litter in bottom traps fishing and first evidence of plastic ingestion. *Marine Pollution Bulletin* 174, 113185. <https://doi.org/10.1016/j.marpolbul.2021.113185>
- Tsagarakis, K, Darmanin, S A, Al Mabruk, S A, Auriemma, R, Azzurro, E, Badouvas, N, Bakiu, R, Bariche, M, Battaglia, P, Betti, F, Borme, D, Cacciamani, R, Cali, F, Corsini-Foka, M, Crocetta, F, Dalyan, C, Deidun, A, Digenis, M, Domenichetti, F, Dragičević, B, Dulčić, J, Durucan, F, Guy-Haim, T, Kesici, N B, Lardi, P, Manitaras, Y, Michailidis, N, Piraino, S, Rizgalla, J, Siapatis, A, Soldo, A, Stipa, M G, Terbiyik Kurt, T, Tiralongo, F, Tsiamis, K, Vella, A, Vella, N, Zava, B, & Gerovasileiou, V. 2021. New records of rare species in the Mediterranean Sea” (October 2021). *Mediterranean Marine Science*, 22(3), 627–652. <https://doi.org/10.12681/mms.26669>
- Battaglia P., Stipa M.G., Ammendolia G., Pedà C., Consoli P., Andaloro F., Romeo T., 2021. When nature continues to surprise: observations of the hectocotylus of *Argonauta argo*, Linnaeus 1758. *The European Zoological Journal*, 88 (1), 980-986 <https://doi.org/10.1080/24750263.2021.1970260> WOS:000689624600001 (Allegato: Pubbl\_89)
- MacKenzie B.R., Romeo T., Addis P., Battaglia P., Consoli P., Andaloro F., Sarà G., 2021. New historical data for long-term swordfish ecological studies in the Mediterranean Sea. *Earth System Science Data*, 13, 5867–5877, <https://doi.org/10.5194/essd-13-1-2021> WOS:000733014800001 (Allegato: Pubbl\_88)
- 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, 801. <https://doi.org/10.3390/jmse9080801>
- Malara D., Longo F., Pagano L., Stipa M.G., Romeo T., Andaloro F., Battaglia P., 2021. Age and growth of pompano, *Trachinotus ovatus* (Linnaeus, 1758), from the Strait of Messina (central Mediterranean Sea). *Scientia Marina*, 85(3), 175-185. <https://doi.org/10.3989/scimar.05167.016>
- Cavallaro M., Ammendolia G., Rao I., Villari A., Battaglia P., 2021. Variazioni pluriennali del fenomeno dello spiaggiamento di specie ittiche nello Stretto di Messina, con particolare attenzione alle specie mesopelagiche. *Annales, Series Historia Naturalis*, 31 (1), 69-78. <https://doi.org/10.19233/ASHN.2021.10>
- Consoli P., Esposito V., Battaglia P., Perzia P., Scotti G., D’Alessandro M., Canese S., Andaloro F., Romeo T., 2021. Marine litter pollution associated with hydrothermal sites in the Aeolian Archipelago (western Mediterranean Sea). *Science of the Total Environment*, 144968, <https://doi.org/10.1016/j.scitotenv.2021.144968>

- Malara D., Battaglia P., Consoli P., Arcadi E., Longo F., Stipa M.G., Pagano L., Greco S., Andaloro F., Romeo T. 2021. When opportunistic predators interact with swordfish harpoon fishing activities: shark depredation over catches in the Strait of Messina (central Mediterranean Sea). *The European Zoological Journal*, 88:1, 226-236, <https://doi.org/10.1080/24750263.2021.1879284>
- Malara D., Battaglia P., Consoli P., Arcadi P., Canese S., Greco S., Andaloro F., Romeo T., 2020. Evidence of a predation event on a tagged Mediterranean spearfish (*Tetrapturus belone*; Pisces, Istiophoridae), inferred from pop-up satellite tagging data. *Aquatic Living Resources*, 33, 23. <https://doi.org/10.1051/alr/2020024>
- Bello G., Andaloro A., Battaglia P., 2020. Non-indigenous species of cephalopods in the Mediterranean Sea: a review. *Acta Adriatica*, 61 (2): 181-186, <https://doi.org/10.32582/aa.61.2.1>
- Romeo T., Battaglia P., Macaluso D., Tagliavia G., Vicchio T.M., Falautano M., Serena F., Andaloro F., 2020. When prey becomes killer: does a double lethal attack on a blue shark reveal a precise defensive strategy in young swordfish? *Journal of the Marine Biological Association of the United Kingdom*, 100(5), 831-836. <https://doi.org/10.1017/S0025315420000661>
- Pedà, C., Battaglia, P., D'Alessandro, M., Laface, F., Malara, D., Consoli, P., Vicchio T.M., Longo F., Andaloro F., Bainsi M., Galli M., Bottari T., Fossi M.C., Greco S., Romeo T., Galli M. 2020. Coupling gastro-intestinal tract analysis with an airborne contamination control method to estimate litter ingestion in demersal elasmobranchs. *Frontiers in Environmental Science*, 8, 119. <https://doi.org/10.3389/fenvs.2020.00119>
- Cavallaro M, Guerrera M. C., Abbate F., Levanti M., Laurà R., Ammendolia G., Malara D., Stipa M. G., Battaglia P. 2020. Morphological, ultrastructural and immunohistochemical study on the skin ventral photophores of *Diaphus holti* Tåning, 1918 (family: Myctophidae). *Acta Zoologica*. <https://doi.org/10.1111/azo.12348>
- Rumolo P., Bonanno A., Genovese S., Romeo T., Mazzola S., Basilone G., Gherardi S., Battaglia P., Andaloro A., Barra M., 2020. Growth-related trophic changes of *Thunnus thynnus* as evidenced by stable nitrogen isotopic values in the first dorsal spine. *Scientific Reports* 10: 9899. <https://doi.org/10.1038/s41598-020-66566-w>
- Schirinzi G.F., Pedà C., Battaglia P., Laface F., Galli M., Bainsi M., Consoli P., Scotti G., Esposito V., Faggio C., Farré M., Barcelò D., Fossi M.C., Andaloro F., Romeo T., 2020. A novel basic/acid digestion protocol for microplastics extraction from gastrointestinal tracts (GITs) of common dolphinfish (*Coryphaena hippurus*). *Journal of Hazardous Materials*. <https://doi.org/10.1016/j.jhazmat.2020.122794>
- Lauritano C., Martínez Andrade K.A., Battaglia P., Granata A., de la Cruz M., Cautain B., Martín J., Reyes F., Ianora A., Letterio Guglielmo L., 2020. First evidence of anticancer and antimicrobial activity in Mediterranean mesopelagic species. *Scientific Reports*, 10: 4929. <https://doi.org/10.1038/S41598-020-61515-Z>
- Cavallaro M., Ammendolia G., Battaglia P., 2020. First record of *Dosima fascicularis* (Ellis & Solander, 1786) (Crustacea, Cirripedia) in the Strait of Messina (Central Mediterranean Sea). *Zootaxa* 4743 (3): 447–450. <https://doi.org/10.11646/zootaxa.4743.3.14>

- Granata A., Bergamasco A., Battaglia P., Milisenda G., Pansera M., Bonanzinga V., Arena G., Andaloro F., Giacobbe S., Greco S., Guglielmo R., Spanò N., Zagami G., Guglielmo L., 2020. Vertical distribution and diel migration of zooplankton and micronekton in Polcevera submarine canyon of the Ligurian mesopelagic zone (NW Mediterranean Sea). *Progress in Oceanography*, 183: 102298. <https://doi.org/10.1016/j.pocean.2020.102298>
- Battaglia P., Smith D., Ammendolia G., Cavallaro M., Maggio T., Consoli P., Romeo T., 2019. The last stage in the life history of the European conger eel *Conger conger*: a transformation before death. *Journal of Fish Biology*, 96 (2): 533-538. <https://doi.org/10.1111/jfb.14223>
- Consoli P., Scotti G., Romeo T., Fossi M.C., Esposito V., D'Alessandro M., Battaglia P., Galgani F., Figurella F., Pragnell-Raasch H., Andaloro F., 2019. Characterization of seafloor litter on Mediterranean shallow coastal waters: Evidence from Dive Against Debris®, a citizen science monitoring approach. *Marine Pollution Bulletin*, 150: 110763. <https://doi.org/10.1016/j.marpolbul.2019.110763>
- Battaglia P., Pagano L., Consoli P., Esposito V., Granata A., Guglielmo L., Pedà C., Romeo T., Zagami G., Vicchio T.M., Guglielmo R., Andaloro F., 2020. Consumption of mesopelagic prey in the Strait of Messina, an upwelling area of the central Mediterranean Sea: feeding behaviour of the blue jack mackerel *Trachurus picturatus* (Bowdich, 1825). *Deep-Sea Research Part I*, 155: 103158 <https://doi.org/10.1016/j.dsr.2019.103158>
- Battaglia P., Consoli P., Ammendolia G., D'Alessandro M., Bo M., Vicchio T.M., Pedà C., Cavallaro M., Andaloro F., Romeo T., 2019. Colonization of floats from submerged derelict fishing gears by four protected species of deep-sea corals and barnacles in the Strait of Messina (central Mediterranean Sea). *Marine Pollution Bulletin*, 148, 61-65. <https://doi.org/10.1016/j.marpolbul.2019.07.073>
- Consoli P., Kovačić M., Battaglia P., Romeo T., Scotti G., Andaloro F., Patzner R.A., 2019. First record of two gobiid fish from the Strait of Sicily (central Mediterranean Sea): *Odondebuena balearica* (Pellegrin & Fage, 1907) and *Vanneaugobius dollfusi* (Brownell, 1978). *Cahiers de Biologie Marine*, 60: 263 – 268. <https://doi.org/10.21411/CBM.A.36F385CB> WOS:000467542000006 (Allegato: Pubbl\_68)
- Maggio T., Allegra A., Andaloro F., Barreiros J.P., Battaglia P., Butler C.M., Cuttitta A., Fontes M.R.J., Freitas R., Gatt M., Karakulak F.S., Macias D., Nicosia A., Oxenford H.A., Saber S., Rodrigues N.V., Yildiz T., Sinopoli M., 2019. Historical separation and present-day structure of common dolphinfish (*Coryphaena hippurus*) populations in the Atlantic Ocean and Mediterranean Sea. *ICES Journal of Marine Science*, 76 (1). <https://doi.org/10.1093/icesjms/fsy174>
- Livi S., Romeo T., De Innocentiis S., Greco C., Battaglia P., Marino G., Andaloro F. 2019. The genetic population structure of *Thunnus thynnus* (Linnaeus, 1758) in the Mediterranean Sea, a controversial issue. *Journal of Applied Ichthyology*, 35 (2): 436-443. <https://doi.org/10.1111/jai.13867>
- Cavallaro M., Battaglia P., Guerrera M.C., Abbate F., Levanti M.B., Ammendolia G., Andaloro F., Germanà A., Laurà R., 2019. Structure and ultrastructure study on photophores of the Madeira lanternfish *Ceratoscopelus maderensis* (Lowe, 1839), Pisces: Myctophidae. *Acta Zoologica*, 100 (1): 89-95. <https://doi.org/10.1111/azo.12236>

- Consoli P., Falautano M., Sinopoli M., Perzia P., Canese S., Esposito V., Battaglia P., Romeo T., Andaloro F., Galgani F., Castriota L., 2018. Composition and abundance of benthic marine litter in a coastal area of the central Mediterranean Sea. *Marine Pollution Bulletin*, 136: 243–247. <https://doi.org/10.1016/j.marpolbul.2018.09.033>
- Castriota L., Esposito V., Falautano M., Battaglia P., Andaloro F., 2018. Observations on the diet of adult *Oblada melanura* (Sparidae) in the Strait of Sicily (central Mediterranean). *Cybium*, 42(3): 293-296. <https://doi.org/10.26028/CYBIUM/2018-423-006>
- Battaglia P., Perzia P., Pedà C., Esposito V., Consoli P., Andaloro F., Romeo T., 2018. Evolution, crisis and new scenarios of the Italian swordfish harpoon fishery. *Regional Studies in Marine Science*, 21, 94-101. <https://doi.org/10.1016/j.rsma.2017.09.006>
- Consoli P., Andaloro F., Altobelli C., Battaglia P., Campagnuolo S., Canese S., Castriota L., Cillari T., Falautano M., Pedà C., Perzia P., Sinopoli M., Vivona P., Scotti G., Esposito V., Galgani F., Romeo T., 2018 Marine litter in an EBSA (Ecologically or Biologically Significant Area) of the central Mediterranean Sea: Abundance, composition, impact on benthic species and basis for monitoring entanglement. *Environmental Pollution*, 236: 405-415. <https://doi.org/10.1016/j.envpol.2018.01.097>
- Battaglia P., Ammendolia G., Esposito V., Romeo T., Andaloro F., 2018. Few but relatively large prey: trophic ecology of *Chauliodus sloani* (Pisces: Stomiidae) in deep waters of the central Mediterranean Sea. *Journal of Ichthyology*, 58 (1): 8–16. <https://doi.org/10.1134/S0032945218010034>
- Esposito V., Andaloro F., Canese S., Bortoluzzi G., Bo M., Di Bella M., Italiano F., Sabatino G., Battaglia P., Consoli P., Giordano P., Spagnoli F., La Cono V., M. Yakimov M.M., Scotti G., Romeo T., 2018 Exceptional discovery of a shallow-water hydrothermal site in the SW area of Basiluzzo islet (Aeolian archipelago, South Tyrrhenian Sea): An environment to preserve. *PLoS ONE* 13(1): e0190710. <https://doi.org/10.1371/journal.pone.0190710>
- Gaglio G., Battaglia P., Costa A., Cavallaro M., Cammilleri G., Graci S., Buscemi M.D., Ferrantelli V., Andaloro F., Marino F., 2018. Anisakis spp. larvae in three mesopelagic and bathypelagic fish species of the central Mediterranean Sea. *Parasitology International*, 67: 23-28. <https://doi.org/10.1016/j.parint.2017.09.010>
- Fossi M.C., Pedà C., Compa M., Tsangaris C., Alomar C., Claro F., Ioakeimidis C., Galgani F., Hema T., Deudero S., Romeo T., Battaglia P., Andaloro F., Caliani I., Casini S., Panti C., Bainsi M. 2018. Bioindicators for monitoring marine litter ingestion and its impacts on Mediterranean biodiversity. *Environmental Pollution*, 237: 1023-1040. <https://doi.org/10.1016/j.envpol.2017.11.019>
- Jawad L., Sabatino G., Andaloro F., Battaglia P. 2018. Morphology and ontogenetic changes in otoliths of the mesopelagic fishes *Ceratoscopelus maderensis* (Myctophidae), *Vinciguerria attenuata* and *V. poweriae* (Phosichthyidae) from the Strait of Messina (Mediterranean Sea). *Acta Zoologica*, 99(2): 126-142. <https://doi.org/10.1111/azo.12197>
- Battaglia P., Ammendolia G., Cavallaro M., Consoli P., Esposito V., Malara D., Rao I., Romeo T., Andaloro F., 2017. Influence of lunar phases, winds and seasonality on the stranding of mesopelagic fish in the Strait of Messina (central Mediterranean Sea). *Marine Ecology*, 38(5), e12459. <https://doi.org/10.1111/maec.12459>



- Raicevich S., Battaglia P., Fortibuoni T., Romeo T., Giovanardi O., Andaloro F., 2017. Critical inconsistencies in early implementations of the Marine Strategy Framework Directive and Common Fisheries Policy objectives hamper policy synergies in fostering the sustainable exploitation of Mediterranean Fisheries Resources. *Frontiers in Marine Science*, 4: 316. <https://doi.org/10.3389/fmars.2017.00316>
- Consoli P., Esposito V., Falautano M., Battaglia P., Castriota L., Romeo T., Sinopoli M., Vivona P., Andaloro F. 2017. The impact of fisheries on vulnerable habitats: the case of trawling on circa-littoral grounds in the Strait of Sicily (central Mediterranean Sea). *Marine Biology Research*, 13: 1084-1094, <https://doi.org/10.1080/17451000.2017.1348010>
- Battaglia P., Andaloro F., Consoli P., Pedà C., Raicevich S., Spagnolo M., Romeo T., 2017. Baseline data to characterize and manage the small-scale fishery (SSF) of an oncoming Marine Protected Area (Cape Milazzo, Italy) in the western Mediterranean Sea. *Ocean & Coastal Management*, 148: 231-244. <https://doi.org/10.1016/j.ocecoaman.2017.08.014>
- Renzi M., Romeo T., Guerranti C., Perra G., Canese S., Consoli P., Focardi S.E., Berti C., Sprovieri M., Gherardi S., Salvagio D., Giaramita L., Esposito V., Battaglia P., Giacobbe S., Andaloro F. 2017. Are shipwrecks a real hazard for the ecosystem in the Mediterranean Sea? *Marine Pollution Bulletin*, 124(1), 21-32. <https://doi.org/10.1016/j.marpolbul.2017.06.084>
- Sinopoli M., Battaglia P., Barreiros J.P. 2017. Unusual presence of *Coryphaena hippurus* Linnaeus, 1758 (Perciformes: Coryphaenidae) under an offshore oil platform in Southern Brazil. *Journal of Coastal Life Medicine*, 5(6): 239-241. <https://doi.org/10.12980/JCLM.5.2017J7-48>
- Romeo T., Ammendolia G., Canese S., Andaloro F., Battaglia P. 2017. Recent records of swordfish attacks to harpoon vessels in the Mediterranean Sea. *Acta Adriatica*, 58(1): 147-156. <https://doi.org/10.32582/aa.58.1.12>
- Castriota L., Falautano M., Battaglia P., Maraventano G., Prazzi E., Ammendolia G., Andaloro F. 2017. First record of *Physalia physalis* in the Pelagie Islands (Strait of Sicily) and additional records in the Strait of Messina. *Cahiers de Biologie Marine*, 58: 243-246. <https://doi.org/10.21411/CBM.A.E207E474>
- Cavallaro M., Battaglia P., Guerrera M.C., Abbate F., Levanti M.B., Andaloro F., Germanà A., Laurà R. 2017. New data on morphology and ultrastructure of skin photophores in the deep-sea squid *Histioteuthis bonnellii* (Férussac, 1834), Cephalopoda: Histioteuthidae. *Acta Zoologica*, 98(3): 271–277. <https://doi.org/10.1111/azo.12174>
- Cavallaro M., Ammendolia G., Andaloro F., Battaglia P., 2017. First record of the mesopelagic fish *Diaphus dumerilii* (Bleeker, 1856) in the Mediterranean Sea. *Marine Biodiversity*, 47(2): 585-588. <https://doi.org/10.1007/s12526-016-0492-3>
- Consoli P., Esposito V., Battaglia P., Altobelli C., Perzia P., Romeo T., Canese S., Andaloro F., 2016. Fish distribution and habitat complexity on banks of the Strait of Sicily (central Mediterranean Sea) from Remotely-Operated Vehicle (ROV) explorations. *PLoS ONE* 11(12): e0167809. <https://doi.org/10.1371/journal.pone.0167809>
- Jereb P., Cannas R., Maiorano P., Bello G., Garibaldi F., Mereu M., Ancona F.G., Ammendolia G., Battaglia P., Duysak Ö., Hoving H.J.T., Lefkaditou E., Lipinski M.R., Melis R., Peristeraki P.N., Ragonese S., Romeo T., Salman A., Santos M. B., Villari A., Cuccu D. 2016. The deep-

water squid *Octopoteuthis sicula* Rüppell, 1844 (Cephalopoda: Octopoteuthidae) as the single species of the genus occurring in the Mediterranean Sea. *Marine Biology*, 163(9): art.192. <https://doi.org/10.1007/s00227-016-2965-0>

Perzia P., Battaglia P., Consoli P., Andaloro F., Romeo T. 2016. Swordfish monitoring by a GIS-based spatial and temporal distribution analysis on harpoon fishery data: a case of study in the central Mediterranean Sea. *Fisheries Research*, 183: 424-434. <https://doi.org/10.1016/j.fishres.2016.07.006>

Romeo T., Pedà C., Fossi C., Andaloro F., Battaglia P. 2016. First record of plastic debris in the stomach of Mediterranean lanternfishes. *Acta Adriatica*, 57(1): 115–124.

Battaglia P., Andaloro F., Esposito V., Granata A., Guglielmo L., Guglielmo R., Musolino S., Romeo T., Zagami G., 2016. Diet and trophic ecology of the lanternfish *Electrona risso* (Cocco 1829) in the Strait of Messina (central Mediterranean Sea) and potential resource utilization from the Deep Scattering Layer (DSL). *Journal of Marine Systems*, 159: 100–108. <https://doi.org/10.1016/j.jmarsys.2016.03.011>

Maisano M., Cappello T., Oliva S., Natalotto A., Giannetto A., Parrino V., Battaglia P., Romeo T., Salvo A., Spanò N., Mauceri, A. 2016. PCB and OCP accumulation and evidence of hepatic alteration in the Atlantic bluefin tuna, *T. thynnus*, from the Mediterranean Sea. *Marine Environmental Research*. <https://doi.org/10.1016/j.marenvres.2016.03.003>

Battaglia P., Pedà C., Musolino S., Esposito V., Andaloro F., Romeo T. 2016. Diet and first documented data on plastic ingestion of *Trachinotus ovatus* (L. 1758), Fam: Carangidae, from the Strait of Messina (central Mediterranean Sea). *Italian Journal of Zoology*, 83(1), 121-129. <https://doi.org/10.1080/11250003.2015.1114157>

Battaglia P., Potoschi A., Valastro M., Andaloro F., Romeo T., 2016. Age, growth, biological and ecological aspects of *Remora osteochir* (Echeneidae) in the Mediterranean Sea. *Journal of the Marine Biological Association of the United Kingdom*, 96(03): 639-645. <https://doi.org/10.1017/S0025315415000867>

Esposito V., Castriota L., Battaglia P., Consoli P., Romeo T., Scotti G., Andaloro F., 2015. Fish community in a surf zone of the northern Sicilian coast (Mediterranean Sea): diversity and functional guild composition. *Mediterranean Marine Science*, 6(3): 502-512. <https://doi.org/10.12681/mms.1139>

Battaglia P., Malara D., Ammendolia G., Romeo T., Andaloro F., 2015. Relationships between otolith size and fish length in some mesopelagic teleosts (Myctophidae, Paralepididae, Phosichthyidae and Stomiidae) from the central Mediterranean Sea (Strait of Messina and Strait of Sicily). *Journal of Fish Biology*, 87: 774–782. <https://doi.org/10.1111/jfb.12744> WOS:000360669700017 (Allegato: Pubbl\_37)

Romeo T., Battaglia P., Pedà C., Consoli P., Andaloro F., Fossi M.C. 2015. First evidence of presence of plastic debris in stomach of large pelagic fish in the Mediterranean Sea. *Marine Pollution Bulletin*, 95: 358–361. <https://doi.org/10.1016/j.marpolbul.2015.04.048>

Battaglia P., Canese S., Ammendolia G., Romeo T., Sandulli R., Tunesi L., Andaloro F. 2015. New records and underwater observation of the rare fish *Scorpaenodes arenai* (Scorpaenidae) from

the central and western Mediterranean Sea. *Italian Journal of Zoology*, 82(3), 454-458. <https://doi.org/10.1080/11250003.2015.1028485>

Pedà C., Battaglia P., Scuderi A., Voliani A., Mancusi C., Andaloro F., Romeo T. 2015. Cephalopod prey in the stomach contents of odontocete cetaceans stranded in the western Mediterranean Sea. *Marine Biology Research*, 11(6): 593-602. <https://doi.org/10.1080/17451000.2014.966724>

Romeo T., Battaglia P., Raicevich S., Perzia P., Andaloro F., 2015. Swordfish harpoon fishery in the Mediterranean Sea: recent data to implement the Marine Strategy Framework Directive and the EcAp (Ecosystem Approach) process. *Fisheries Research*, 161: 191-199. <https://doi.org/10.1016/j.fishres.2014.07.013>

Cavallaro M., Battaglia P., Laurà R., Guerrera M.C., Abbate F., Germanà A., 2015. The morphology of photophores in the garrick, *Cyclothone braueri* (Family: Gonostomatidae): an ultrastructure study. *Acta Zoologica*, 96(3), 296-300. <https://doi.org/10.1111/azo.12076>

Falautano M., Castriota L., Battaglia P., Romeo T., Andaloro F., 2014. First record of the Lessepsian fish *Hemiramphus far* (Forsskål, 1775) (Hemiramphidae) in Italian waters. *Cybium*, 38(3): 235-237.

Battaglia P., Esposito V., Malara D., Falautano M., Castriota L., Andaloro F., 2014. Diet of the spothhead lanternfish *Diaphus metopoclampus* (Cocco 1829), Pisces: Myctophidae, in the central Mediterranean Sea. *Italian Journal of Zoology*, 81(4): 530-543. <https://doi.org/10.1080/11250003.2014.948500>

Battaglia P., Ammendolia G., Esposito V., Romeo T., Andaloro F., 2014. Additional data on the rare fish *Microichthys sanzoi* (Epigonidae) from the central Mediterranean Sea. *Acta Adriatica*, 54(1): 3-12.

Castriota L., Falautano M., Battaglia P., Oddo A., Andaloro F., 2014. New biological data on *Fistularia commersonii* in the central Mediterranean Sea. *Cybium*, 38(1): 15-21.

### **Books:**

Pedà C., Battaglia P., Romeo T., Stipa M.G., Longo F., Malara D., Consoli P., Andaloro F. (2022) Photographic atlas of cephalopod beaks from the Mediterranean Sea. Eta Beta ed., pp. 109, ISBN: 9791259686381

### **International Reports:**

Zampoukas N., Palialexis A., Duffek A., Graveland J., Giorgi G., Hagebro C., Hanke G., Korpinen S., Tasker M., Tornero V., Abaza V., Battaglia P., Caparis M., Dekeling R., Frias Vega M., Haarich M., Katsanevakis S., Klein H., Krzyminski W., Laamanen M., Le Gac J.C., Leppanen J.M., Lips U., Maes T., Magaletti E., Malcolm S., Marques J.M., Mihail O., Moxon R., O'Brien C., Panagiotidis P., Penna M., Piroddi C., Probst W.N., Raicevich S., Trabucco B., Tunesi L., van der Graaf S., Weiss A., Wernersson A.S., Zevenboom W. (2014). Technical guidance on monitoring for the Marine Strategy Framework Directive. JRC Scientific and Policy Reports. Joint Research Centre of the European Commission, Luxembourg: Publications Office of the European Union. doi: 10.2788/70344.

