

Curriculum vitae

- Personal information** Name: Teresa Bottari
Nationality: Italian
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- Education** 2003: Ph.D. in *Health of Marine Environment, Fish Pathology and Quality* at the University of Messina

2000-2002: Ph.D. student in *Health of Marine Environment, Fish Pathology and Quality* at the University of Messina

November 1999: Professional license to practice

February 1999: Degree in Veterinary Medicine at the University of Messina
- Positions held** January 2008 - current: Researcher, Institute for Biological Resources and Marine Biotechnologies (IRBIM), National Research Council (CNR), Messina

July 2004-December 2007: Research grant. University of Messina

November 2004 - July 2007: Subject expert for the scientific-disciplinary sector VET/05, Infectious Diseases. University of Messina

November 2003 - May 2004: Research grant. National Research Council (CNR) Istituto Talassografico – Messina

June 2003 - July 2004: Tutor - Post-graduate specialization course in *Biotechnological Applications in Mariculture* (1500 hours). Progetto Impresa piccola soc. coop. A r.l.
- Scientometric data:** Publications with IF: n. 52
Google scholar citation index: 854
Google scholar H index: 16
Scopus citation index: 537
Scopus H index 12
- Research fields:** Distribution and characterization of microplastics in Mediterranean and Antarctic fish species.

Identification of marine parasites that can be used as "biological tags" for the discrimination of fish stocks.

Ecology and biology of fish, molluscs and crustaceans; life-history traits (age and growth, maturity and reproduction).

**National and
International
Expeditions:**

Partecipation to many oceanographic cruises on Italian research vessels (CNR vessels: Dallaporta and Maria Grazia) and to experimental trawl surveys in the Mediterranean Sea in the ambit of GRUND (1997, 2000, 2001, 2002) and MEDITS project (2000, 2001, 2002) on Italian and Spanish oceanographic vessels.

Coordination of oceanographic cruises in southern Tyrrhenian Sea trawlable bottoms. CNR vessels: "Dalla Porta" and "Maria Grazia" in 2010, 2011 and 2012.

Coordination of oceanographic cruise along the northern coasts of Sicily aimed to evaluate the presence of floating microplastic in water and in the gastrointestinal tract of demersal fish species. 2017.

Research projects:

Operative Unit Leader

2013-2015. Italian Ministry - Ritmare Project "Use of parasite as biological tags for fish stock identification".

2017. Programma Nazionale di Raccolta Dati nel settore della pesca e dell'acquacoltura – WP 3 "Campionamento biologico" (CAMPBIOL) - GSA 10 (Mar Tirreno centro-meridionale).

2019-2022. Italian Ministry of University and Research. National Research Program in Antarctica - Study of bacteria resistant to antibiotics and heavy metals (water, sediment and *Trematomus bernacchii*) and detection of heavy metals.

Software:

Statistica, Primer v. 6, Past, Mypstat.

Publications (ISI Journals):

- 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*
- Savoca S., Matanovic K., D'Angelo G., Vetri V., Bottari T., Mancuso M., Kuzir S., Spanò N., Capillo G., Di Paola D., Valic D., Anselmo S., Gjurcevic E. (2021) Ingestion of plastic and non-plastic microfibers by farmed gilthead sea bream (*Sparus aurata*) and common carp (*Cyprinus carpio*) at different life stage. *Science of Total Environment* 782 – 146851
- Capillo G., Savoca S., Panarello G., Mancuso M., Branca C., Romano V., D'Angelo G., Bottari T., Spanò N. 2020. Quali-quantitative analysis of plastics and synthetic microfibers found in demersal species from Southern Tyrrhenian sea (Central Mediterranean). *Marine Pollution Bulletin*
- Savoca S., Bottari T., Fazio E., Bonsignore M., Mancuso M., Luna G.M., Romeo T., D'Urso L., Capillo G., Panarello G., Greco S., Compagnini G., Lanteri G., Crupi R., Neri F., Spanò N. 2020. Plastics occurrence in juveniles of *Engraulis encrasicolus* and *Sardina pilchardus* in the Southern Tyrrhenian Sea. *Science of The Total Environment*
- Bottari T., Gaglio G., Mobilia V., Garofalo G., Iaria C., Fiorentino F. 2020. Discrimination of red mullet populations (Teleostean, Mullidae) off the Sicilian coasts (Mediterranean Sea) on the basis of metazoan parasites. *Thalassas: An International Journal of Marine Sciences* <https://doi.org/10.1007/s41208-020-00211-1>
- Gislason H., Collie J., MacKenzie B.R., Nielsen A., de Fatima Borges M., Bottari T., Chaves C., ... Vrgoč N. (2020) Species richness in North Atlantic fish: Process concealed by pattern. *Global Ecology and Biogeography*, DOI: 10.1111/geb.13068
- 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. (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 DOI: 10.3389/fenvs.2020.00119
- Savoca S., Capillo G., Mancuso M., Bottari T., Crupi R., Branca C., Romano V., Faggio C., D'Angelo G., Spanò N. (2019) Microplastics occurrence in the Tyrrhenian waters and in the gastrointestinal tract of two congener species of seabreams. *Environmental Toxicology and Pharmacology* DOI: doi.org/10.1016/j.etap.2019.01.011
- Savoca S., Capillo G., Faggio C., Mancuso M., Panarello G., Crupi R., Bonsignore M., D'Urso L., Compagnini G., Neri F., Fazio E., Bottari T., Spanò N. 2019. Detection of artificial cellulose

microfibers in *Boops boops* from the northern coasts of Sicily (Central Mediterranean). *Science of The Total Environment* 691:455–465

- Bottari T., Savoca S., Capillo G., Mancuso M. Panarello G., Bonsignore M., Crupi R., D’Urso L., Compagnini G., Neri F., 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
- Mancuso M., Savoca S. and Bottari T. (2019) First record of microplastics ingestion by European hake (*Merluccius merluccius*) in Tyrrhenian Sicilian coast (Central Mediterranean Sea). *Journal of Fish Biology* 94(3): 517-519
- Bottari T, Profeta A., Massi D., Titone A, Mobilia V, Iaria C., Lanteri G. (2018). *Lophoura edwardsi* (Sphyrriidae: Siphonostomatoida), a parasite of *Coelorinchus caelorhincus* (Macrouridae) from the Central Mediterranean. *Cahiers de Biologie Marine* 59: 563-569.
- Bottari T., Spinelli A., Busalacchi B., Rinelli P., Giacobbe S. (2017) Transplant trials of the fan mussel *Pinna nobilis* inside the SCI of Capo Peloro (Central Mediterranean, Italy). *Journal of Shellfish Research* 36(1), pp. 3-8.
- Bottari T., Scarfi G., S. Giacobbe S. (2017) Mass mortality in the noah's ark, *Arca noae*, l., 1758: a case-study from the Strait of Messina (Mediterranean Sea). *Journal of Shellfish Research* 36(3), pp. 749-753
- Bottari T., Profeta A., Spanò N, Longo F., Rinelli P. (2016) New Host Records for the Marine Fish Ectoparasite *Argulus vittatus* (Crustacea: Branchiura: Argulidae). *Comparative Parasitology*
- Marino F., Busalacchi B., Bottari T., Rinelli P., Gaglio G. (2016) Occurrence and prevalence of *Philometra filiformis* (Stossich, 1896) on *Pagellus erythrinus* (Linnaeus, 1758) in the Southern Tyrrhenian Sea. *Journal of Applied Ichthyology* 68 (4): pp. 491-501.
- Bottari T, Rinelli P., Garofalo G, Spanò N, Mobilia V, Fiorentino F. (2016) Epidemiology of gnathiid isopods on red mullet (*Mullus barbatus barbatus*) along the Tyrrhenian Sicilian coast (Mediterranean Sea). *Cahiers de Biologie Marine* 57(3)
- Macrì F., Passantino A., Di Pietro S., Ruscica D., Sfacteria A., De Stefano C., Bottari T. (2015) Effects of formalin preservation on eye lens of bogue, *Boops boops* (Linnaeus, 1758): comparison of direct (post-fixation) vs ultrasound (true) measurements. *Journal of Applied Ichthyology*, 31: 393–394. doi: 10.1111/jai.12678
- Bottari T., Micale V., Liguori M., Rinelli P., Bonfiglio R., Ragonese S. (2014). The reproductive biology of *Boops boops* (Linnaeus, 1758) (Teleostei: Sparidae) in the southern Tyrrhenian Sea (Central Mediterranean). *Cahiers de Biologie Marine* 55(2):281-292.

- Bottari T., Busalacchi B., Profeta A., Mancuso M., Giordano D., Rinelli P (2014) Elasmobranch Distribution and Assemblages in the Southern Tyrrhenian Sea (Central Mediterranean). *J. Aquac. Res. Development* 5: 216 doi:10.4172/2155-9546.1000216
- Busalacchi B., Bottari T., Giordano D., Profeta A., Rinelli P. (2014) Distribution and biological features of the common pandora, *Pagellus erythrinus* (Linnaeus, 1758), in the Southern Tyrrhenian Sea (Central Mediterranean). *Helgoland Marine Research*, DOI 10.1007/s10152-014-0404-5.
- Giacobello C., Foti M., Bottari T., Fisichella V., Barbera G. (2013) Detection of viral encephalopathy and retinopathy virus (VERV) in wild marine fish species of the South Tyrrhenian Sea (Central Mediterranean). *Journal of Fish Diseases*, 36: 819–821.
- Bottari T., Liguori M., Trilles J.P., Giordano D., Romeo T., Perdichizzi F., Rinelli P. (2013) Host-parasite relationship: occurrence and effect of *Ceratothoa parallela* (Otto, 1828) on *Boops boops* (L., 1758) in the Southern Tyrrhenian Sea. *Journal of Applied Ichthyology* 29: 896–900.
- Macrì F., Di Pietro S., Bonfiglio R., De Stefano C., Giorgianni P., Bottari T (2013) Anatomical evaluation of the organs in the red swamp crayfish, *Procambarus clarkii*, by diagnostic ultrasound examination. *Journal of Crustacean Biology* 33(4): 586-589.
- Bottari T., Rinelli P., Bianchini ML., Ragonese S. (2013). Stock identification of the thornback ray (*Raja clavata* L.) in two contiguous areas of the Central Mediterranean Sea. *Hydrobiologia* 703:215–224.
- Macrì F., Bottari T., Bonfiglio R., Rapisarda G., Marino F. 2012. Comparison of direct versus radiographic measures of sagittae in bogue. *American Journal of Veterinary Research* 73(2): 233-236.
- Perdichizzi A., Pirrera L., Giordano D., Perdichizzi F., Busalacchi B., Profeta A., Bottari T., Rinelli P. 2011. Distribution patterns and population structure of *Illex coindetii* (Cephalopoda: Ommastrephidae) in the Southern Tyrrhenian Sea: Historical series of 14 years trawl survey. *Fisheries Research* 109: 342-350.
- Bottari T., Nardone G., Rinelli P., Ragonese S. (2011) Is the African armoured searobin (*Peristedion cataphractum*, Peristediidae) stock off the south Sicily and North African coasts a "unit stock"? *Cybium* 35 (2): 91-98.
- Gaglio G., Bottari T., Rinelli P., Marino F., Macrì D., Giannetto S. 2011. Prevalence of *Clavella stellata* (Copepoda: Lernaepodidae) (Kroyer 1838) in the European hake (*Merluccius merluccius*) (L. 1758), South Tyrrhenian Sea (Central Mediterranean). *Journal of Applied Ichthyology* 27(1): 136-138.

- Giordano D., Busalacchi B., Bottari T., Perdichizzi F., Profeta A., Perdichizzi A., Pirrera L., Modica L., Rinelli P. 2010. Population dynamics and distribution of *Eledone cirrhosa* (Lamarck, 1798) in the Southern Tyrrhenian Sea (Central Mediterranean). *Cahiers de Biologie Marine* 51: 213-227
- Bottari T., Dimech M., Nardone G., Rinelli P., Ragonese S. (2010). Distribution and biological features of the African armoured searobin, *Peristedion cataphractum* L. 1758 (Teleostei, Peristedidae) off the southern coasts of Sicily (Mediterranean Sea). *Acta Ichthyologica et Piscatoria* 40(2): 113-127.
- Busalacchi B., Rinelli P., De Domenico F., Profeta A., Perdichizzi F., Bottari T. 2010. Analysis of demersal fish assemblages off the Southern Tyrrhenian Sea (central Mediterranean). *Hydrobiologia* 654: 111-114.
- Giordano D., Perdichizzi A., Pirrera L., Perdichizzi F., Profeta A., Busalacchi B., Bottari T., Rinelli P. (2009) Distribution and biology of *Sepietta oweniana* (Pfeffer, 1908) (Sepiolodae: Cephalopoda) in the Southern Tyrrhenian Sea (Central Mediterranean). *Cahier de Biologie Marine* 50: 1-10.
- Foti M., Giacobello C., Bottari T., Fisichella V., Rinaldo D., Mammina C. (2009) Antibiotic resistance of Gram negatives isolates from loggerhead sea turtle (*Caretta caretta*) in the Central Mediterranean Sea. *Marine Pollution Bulletin* 58: 1363–1366.
- Pirrera L., Bottari T., Busalacchi B., Giordano D., Modica L., Perdichizzi A., Perdichizzi F., Profeta A., Rinelli P. 2009. Distribution and population structure of the fish *Helicolenus dactylopterus dactylopterus* (Delaroche, 1809) in the Central Mediterranean (Southern Tyrrhenian Sea). *Marine Ecology – An Evolutionary Perspective* 30 (Suppl.1): 161–174.
- Foti M., Bottari T., Coci G., Daidone A., Pennisi MG. (2008) Enterobacteriaceae isolates in cloacal swabs from loggerhead sea turtles (*Caretta caretta*) in the Central Mediterranean Sea. *Journal of Herpetological Medicine and Surgery* 17(4): 125-128.
- Giordano D., Bottari T., Busalacchi B., Jereb P., Ragonese S., Rinelli P. (2005) On the relationship between beaks and body size in *Sepia officinalis* from the Southern Tyrrhenian Sea (Central Mediterranean). *Cahier de Biologie Marine*, 46: 35-41.
- Rinelli P., Bottari T., Florio G., Romeo T., Giordano D., Greco S. (2005) Observations on distribution and biology of *Galeus melastomus* (Chondrichthyes, Scyliorhinidae) in the Southern Tyrrhenian Sea (Central Mediterranean). *Cybium* 29 (1): 41-46.
- Paradiso M.L., Bottari T., Marino F., Boyko C., Rinelli P., Giannetto S. (2004) Presence and histopathology of the parasitic isopod *Pseudione affinis* (Epicaridea, Bopyridae) on pandalid shrimps from the Central Mediterranean Sea. *Crustaceana* 77(4): 397-405.

- Marino F., Giannetto S., Paradiso M.L, Bottari T., De Vico G., Macri' B. (2004) Tissue damage and haematophagia due to praniza larvae (Isopoda: Gnathiidae) in some Aquarium sea water teleosts. *Diseases of Aquatic Organisms* 59:43-47.
- Bottari T., Rinelli P., Giordano D., Greco S. (2004) Length-weight relationship and maturity of the Atlantic mackerel *Scomber scombrus* from the Adriatic Sea (Eastern Mediterranean). *Cahier de Biologie Marine* 45: 49-53.
- Giuffrida A., Ziino G., La Paola R., Bottari T., Panebianco A. (2004) Bacteriology of unshelled frozen blue swimming crab (*Portunus pelagicus*). *Journal of Food Protection* 67 (4): 809-812.
- Bottari T., Greco S., Panebianco A. (2003) Trawling Lesions: Incidence in Some Fish Species and Preliminary Statistical Evaluations. *Veterinary Research Communications* 27 (1): 285-288.
- Bottari T., Rinelli P., Panebianco A. (2003) Trawling lesions in some decapod crustaceans: considerations with regard to governmental inspections. *Crustaceana* 76 (8): 927-933.
- Marino F., Giannetto S., Cavallaro M., Paradiso M.L., Bottari T., De Vico G. (2003) *Unitubulotestis sardae* (trematoda: Didymozoidae) infection in Atlantic bonito *Sarda sarda* (Perciformes: Scomberomoridae) in the Ionian and Tyrrhenian Seas: histopathological and SEM investigations. *Journal of Submicroscopic Cytology and Pathology* 35(2): 215-220
- Giannetto S., Marino F., Paradiso M.L., Bottari T., De Vico G. (2003) Light and Scanning electron microscopy observations on *Gnathia vorax* (Isopoda: Gnathiidae) larvae. *Journal of Submicroscopic Cytology and Pathology* 35 (2): 161-165.