

Massimiliano Bottaro



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Current Position: Researcher (ricercatore III livello)

Current Affiliation:

Department of Integrative Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
High School Liceo Scientifico "Enrico Fermi"	High School Degree	1994	Scientific matters
Central Institute for Applied Marine Research (ICRAM, now ISPRA), Italy	Scientific Collaboration and Research Fellows	2000-2009	Fish and Fishery Biology and Ecology
University of Genoa, Italy	Master (Laurea)	2004	Biological sciences
University of Siena, Italy	Ph.D.	2009	Fish Biology and Ecology
National Institute for Environmental Protection and Research (ISPRA), Italy	Postdoc	2009-2011	Fishery Biology and Conservation of Chondrichthyans
National Institute for Environmental Protection and Research (ISPRA), Italy	Researcher	2011-2017	Conservation of Chondrichthyans and Scientific Support to Italian Environmental Ministry
Stazione Zoologica Anton Dohrn, Napoli, Italy	Researcher	2017-present	Fish and Fishery Biology and Ecology

Appointments and awards

2019 - present: General coordinator of the 5 years project LIFE ELIFE (Elasmobranch Low Impact Fishery Experience - LIFE18 NAT/IT/000846), funded by the EU LIFE program, aiming the reduction of the bycatch and the mortality of elasmobranchs in the framework of the EU professional fishery

2019 - present: Coordinator of the Action 5.6 (“Areas of interaction between aquaculture/fishery and marine protected vertebrates”) in the Measure 2.51 of the project FEAMP CAMPANIA;

2018 - present: Project manager and coordinator of the offshore scientific monitoring program of the ENI offshore platforms in the Northern-Central Adriatic Sea (SZN is the leading partner of a network of 7 scientific institutes monitoring the impact on the marine environment of more than 40 gas extraction platforms).

2006-2014: Coordinator of the Group of Italian Researchers on Sharks, rays and chimeras (GRIS), of the Italian Society of Marine Biology (SIBM).

2009: Vice-President of the European Elasmobranch Association (EEA)

2009-2011: co-scientific coordinator of the research project “ELASMOIT”, funded by Italian Environmental Ministry

2010: scientific coordinator of the “elasmobranch task” of the project “BYCATCH III” funded by the Fishery Division of the Italian Ministry for Agricultural, Food and Forestal Affairs

2010-2012: President of the European Elasmobranch Association (EEA)

2010 - present: member of the work group on elasmobranch reproduction of the International Council for the Exploration of the Sea (ICES)

2011 - present: Member of the International Union for Conservation of Nature (IUCN)/Species Survival Commission (SSC,) Shark Specialist Group (SSG)

2012: President of the Organizing Committee of the 16th Scientific Congress of the European Elasmobranch Association (EEA)

2012-2013: Vice-President of the European Elasmobranch Association (EEA)

2012-2015: member of the Committee “Necton and Fishery” of the Italian Society of Marine Biology (SIBM)

2012 - present: Specialist of the Italian Ministry of Environment at the Italian National Panel for the Conservation and Management of the Cartilaginous Fishes in the Italian Seas

2013 - present: Elasmobranch specialist for the Italian Committee of the IUCN

2013 - present: member of the Scientific Committee of the European Elasmobranch Association (EEA)

Other

Member of the European Elasmobranch Association (EEA), the Italian Society of Marine Biology (SIBM) and the Italian Zoological Union (UZI)

Reviewer for more the following ISI-Web of Science Journals: *Journal of the Marine Biological Association of the United Kingdom*, *Italian Journal of Zoology*, *CBM-Cahiers de Biologie Marine*, *Cybiurn*, *Journal of Fish Biology*, *Aquatic Conservation*, *Biogeographia - The Journal of Integrative Biogeography*, *Marine Ecology Progress Series*, *Journal of Threatened Taxa*, *Scientific Reports*, *European Journal of Zoology*, *Mediterranean Marine Science*.

Students' Supervision

Supervisor of several MSc. students (from University of Genoa, Milan, Bologna, Palermo and Wales Bangor) and PhD students (from University of Calabria, Siena and Trieste).

Publications

Author of 28 publications on ISI-journals (h index: 11).

List of publications of the last 10 years:

Peer-reviewed publications:

Leonetti F. L., Giglio G., Leone A., Coppola F., Romano C., **Bottaro M.**, Reinerio F. R., Micarelli P., Tripepi S., Sperone E. In press. An updated check-list of chondrichthyans of Calabria (Central Mediterranean, southern Italy), with emphasis on rare species *Mediterranean Marine Science*.

Leonetti F. L., Sperone E., Travaglini A., Mojetta A. R., Signore M., Psomadaki, P. N., Dinkel T. M. & **Bottaro M.**, 2020. Filling the Gap and Improving Conservation: How IUCN Red Lists and Historical Scientific Data Can Shed More Light on Threatened Sharks in the Italian Seas. *Diversity*, 12(10), 389.

Mancusi C., Baino R., Fortuna C., De Sola L. G., Morey G., Bradai M. N., ...**Bottaro M.** ... & Dimech, M., 2020. MEDLEM database, a data collection on large Elasmobranchs in the Mediterranean and Black seas. *Mediterranean Marine Science*, 276-288.

Moro S., Jona-Lasinio G., Block B., Micheli F., De Leo G., Serena F., **Bottaro M.**, Scacco U., Ferretti F. 2019. Abundance and distribution of the white shark in the Mediterranean Sea. *Fish and Fisheries*, <https://doi.org/10.1111/faf.12432>

Mojetta A.R., Travaglini A., Scacco U. & **Bottaro M.**, 2018. Where sharks met humans: the Mediterranean sea, history and myth of an ancient interaction between two dominant species. *Regional Studies in Marine Science*, 21: 30-38.

Vacchi M., DeVries A.L., Evans C.E., **Bottaro M.**, Ghigliotti L., Cutroneo L., Pisano E., 2012. A nursery area for the Antarctic silverfish *Pleuragramma antarcticum* at Terra Nova Bay (Ross Sea): first estimate of distribution and abundance of eggs and larvae under the seasonal sea-ice. *Polar Biology*, 35 (10): 1573-1585.

Consalvo I., Iraci Sareri D., **Bottaro M.**, Tudisco A., Cantone G. & Vacchi M., 2010. Feeding habits of juveniles of rough ray *Raja radula* (Chondrichthyes: Rajidae) from the Ionian Sea. *Italian Journal of Zoology*, 77(4):438-442.

Azzali M., Leonori I, Biagiotti I., De Felice A., Angiolillo M., **Bottaro M.**, Vacchi M., 2010. Target strength studies on Antarctic Silverfish (*Pleuragramma antarcticum*) in the Ross Sea. *CCAMLR Science*, 17:75-104.

Bottaro M., Ferrando S., Ravera S., Vacchi M., Gallus L., Gambardella G., Tagliafierro G., 2009. First detection of neuropeptide Y (NPY)-like immunoreactivity in the lateral line: presence and distribution in the neuromasts of the Antarctic notothenioid fish *Trematomus bernacchii*. *Neuroscience Letters*, 458:37-42.

Bottaro M., Oliveri D., Ghigliotti L., Pisano E., Ferrando S., Vacchi M., 2009. Born among the ice:

first morphological observations on two developmental stages of the Antarctic silverfish *Pleuragramma antarcticum*, a key species of the Southern Ocean. *Reviews in Fish Biology and Fisheries*, 19:249-259.

Ferrando S., Gambardella C., **Bottaro M.**, Saroglia M., Terova G., Tagliafierro G., 2009. The compensatory growth in juveniles of sea bass: gastric distributive pattern of molecules regulating metabolism. *Annals of the New York Academy of Science*, 1163: 389-393.

Gallus L., Ferrando S, **Bottaro M.**, Diaspro , Girosi L, Faimali M., Ramoino P., Tagliafierro G., 2009. Presence and distribution of FMRamide-like immunoreactivity in the cyprid of the barnacle *Balanus amphitrite* (Cirripedia, Crustacea). *Microscopy Research and Techniques*, 72:101–109.

Consalvo I., Psomadakis I., **Bottaro M.** & Vacchi M., 2009. First documented record of *Leucoraja circularis* (Rajidae) in the central Tyrrhenian Sea. *Marine Biodiversity Records*, Vol. 2; e24:1-3.

Bottaro M., Consalvo I., Ferrando S., Gallus L., Girosi L., Psomadakis P. N., Atkinson C. J. L, Vacchi M., 2008. New records of blonde ray (*Raja brachyura*) from the Ligurian Sea. *Marine Biodiversity records*, Vol. 1; e72: p 1-3.

Bottaro M., Ferrando F., Gallus L., Girosi L., Vacchi M., 2008. First record of albinism in the deep water shark *Dalatias licha*. *Marine Biodiversity records*, Vol. 1; e10: p 1-4.

P.N. Psomadakis P. N., Scacco U., Consalvo I., **Bottaro M.**, Leone F. & Vacchi M., 2008. New records of the lessepsian fish *Fistularia commersonii* (Osteichthyes: Fistulariidae) from the central Tyrrhenian Sea: signs of an incoming colonization? *Marine Biodiversity Records*, Vol. 2; e49.

Ferrando S., **Bottaro M.**, Pedemonte F., De Lorenzo S., Gallus L., Tagliafierro G., 2007. Appearance of crypt neurons in the olfactory epithelium of the skate *Raja clavata* during development. *The Anatomical Record*, 290: 1268-1272.

Vacchi M., **Bottaro M.**, Pisano E., Eastman J. T., Eakin R. R., 2007. Aspects of gonadal morphology in the South Georgian plunderfish *Artedidraco mirus* (Perciformes: Artedidraconidae). *Polar Biology*, 30:125-131.

Psomadakis P. N., Bottaro M., Vacchi M., 2007. On two large specimens of *Zu cristatus* (Pisces, Trachipteridae) from the Gulf of Genoa (NW Mediterranean). *Cybium*, 31:480-482.

Ferrando S., **Bottaro M.**, Gallus L., Girosi L., Tagliafierro G., 2007. First detection of olfactory marker protein (OMP) immunoreactivity in the olfactory epithelium of a cartilaginous fish. *Neuroscience Letters*, 413:173-176.