

Anna Traina, PhD

Personal information

Name: Anna

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Place and date of birth: Palermo, 08/08/1979

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Profile

My current research activity is linked to biogeochemical laboratory. My work involves chemical analysis of different matrices as sea water, sediment, biogenic carbonates and tissues of marine organisms by using ICP-AES and ICP-MS to characterize marine environmental in terms of trace elements.

Education

(2011) PhD in Environmental Sciences at University of Ca' Foscari – Venice, with a thesis titled: “*Contribution to the study of otolith chemistry of farmed Dicentrarchus labrax: the otolith as potential environmental proxy*”.

(2006) University Degree in Biological Sciences-University of Palermo.

Working experience

Since 2012, fixed-term contract -Technologist Level III (0006915 del 22/11/2012) “*Analysis of trace elements in sediment, seawater, biogenic carbonates and tissues of marine organisms*”.

(2011-2012) Term contract (0004515 del 02/11/2011): Working project for “*Expert in use of investigation systems linked to the distribution of trace elements in environmental matrices*”.

(2009) Term contract (0002937 del 29/10/2009): Working Project for “*Preparation, reading and analysis of otoliths of anchovy (*Engraulis encrasicolus*) and sardine (*Sardina pilchardus*) in the CAMPBIOL project (Data Collection Regulation)*”.

(2007-2008) Laboratory assistant at the IAMC-CNR – Detached Unit of Mazara del Vallo.

Oceanographic surveys on CNR vessels: “SolvayII” (2017), “Marine Strategy II” (2016), “Solvay” (2016), Anomcity 2015, 2014, 2013 e 2012; Bansic '10; '09, '08 e '07.

Other working experience

Short Term Mobility (STM) 2015 (Period: 15/06/2015 to 25/06/2015) at Littoral ENvironment and Societies Laboratory (LIENSs), CNRS-University of La Rochelle (France), under the supervision of Prof. Paco Bustamante. Subject: “*Study of bioaccumulation and detoxification in Sepia officinalis from Sicilian channel by determining Hg-tot and Se in tissue and digestive gland*”.

Research activity (Period: from May to July 2013) at Fisheries Ecology Laboratory-Texas A&M University at Galveston (USA) under the supervision of Prof. Jay Rooker. My research work was focused on analysis of trace elements in the otoliths of age-0 Atlantic bluefin tuna from three regional nurseries in the Mediterranean Sea.

List of publications

-Traina A., Quinci E., Fraileb I., Orayc I. K., Arrizabalaga H., Rooker J. R. Regional variation in the otolith chemistry of age-0 bluefin tuna from nurseries in the Mediterranean Sea. *Submitted on Mediterranean Marine Science*.

-Musco M., Cuttitta A., Bicchi E., Maria Quinci E., Sprovieri M., Tranchida G., Giaramita L., Traina A., Salvagio Manta D., Gherardi S., Mercurio P., Siragusa A., Mazzola S. Benthic Foraminifera as bio-indicators of anthropogenic impacts in coastal environments: Acqua dei Corsari area case study (Palermo, Italy). *Marine Pollution Bulletin* (2017), Vol 117, Issue 1-2, pp.75-87

-Bellante A., D'Agostino F., Traina A., Piazzese D., Milazzo M.F. and Sprovieri M. Hg and Se exposure in brain tissues of striped dolphin (*Stenella coeruleoalba*) and bottlenose dolphin (*Tursiops truncatus*) from the Tyrrhenian and Adriatic Seas. *Ecotoxicology* (2017). 26(2):250-260
doi:10.1007/s10646-017-1759-6.

-Bellante A., Maccarone V., Buscaino G., Buffa G., Filiciotto F., Traina A., Del Core M., Mazzola S., Sprovieri M. Trace element concentrations in red swamp crayfish (*Procambarus clarkii*) and surface sediments in Lake Preola and Gorgi Tondi natural reserve, SW Sicily. *Environmental Monitoring and Assessment*. (2015) 187:404. DOI 10.1007/s10661-015-4613-4

-A. Traina, E. Oliveri, D. Salvagio Manta, M. Barra, S. Mazzola, A. Cuttitta. Metals content in otoliths of *Dicentrarchus labrax* from two fish farm of Sicily. *Environmental Monitoring and Assessment*. (2015) 187(6):4434. doi: 10.1007/s10661-015-4434-5.

-Sabatino N., Coccioni R., Salvagio Manta D., Baudin F., Vallefucio M., Traina A., Sprovieri M. High-resolution chemostratigraphy of the late Aptian–early Albian oceanic anoxic event (OAE 1b) from the Poggio le Guaine section (Umbria-Marche Basin, central Italy), *Palaeogeography, Palaeoclimatology, Palaeoecology*. (2015) 426, pp. 319-333

-Bonsignore M., Salvagio Manta D., Oliveri E., Sprovieri M., Basilone G., Bonanno A., Falco F., Traina A. and Mazzola S. (2013) "Mercury in fishes from Augusta Bay (southern Italy): risk assessment and health implication", *Food and chemical toxicology* 56(2013) 184-194

-Bellante A., Salvagio Manta D., Traina A., Buscaino G., Buffa G., Barra M., Tamburrino S., Mazzola S., Sprovieri M., 2013, Trace elements in tissues of Sperm Whales stranded along the Italian coast, *Chemistry and Ecology* 2013

-Traina A., Saborido-Rey F., Basilone G., Ferreri R., Quinci E., Masullo T., Aronica S., Mazzola S., 2011. Assessing population structure of European Anchovy (*Engraulis encrasicolus*) in the Central Mediterranean by means of traditional morphometry. *Advances in Oceanography and Limnology*, 2, No 2: 141-153.

-Ferreri R., Basilone G., D'Elia M., Traina A., Saborido-Rey F., Mazzola S. 2009. Validation of macroscopic maturity stages according to the microscopic histological examination for European Anchovy". *Marine Ecology* 30 (Suppl. 1): 181–187.

Chapters in books

Bonsignore M., Salvagio Manta D., Falco F., Traina A., Mazzola S. Il mercurio e la fauna ittica. In: "Inquinamento ambientale e salute umana –Il caso studio della Rada di Augusta" a cura di Mario Sprovieri. pp 89-110. CNR Edizioni 2015. ISBN 978-88-8080-153-5

Mario Sprovieri, Marco Barra, Marianna Del Core, Gabriella Di Martino, Luigi Giaramita, Serena Gherardi, Sara Innangi, Elvira Oliveri, Salvatore Passaro, Teresa Romeo, Paola Rumolo, Daniela Salvagio Manta, Stella Tamburrino, Renato Tonielli, Anna Traina, Giorgio Tranchida, Mattia Vallefucio, Salvatore Mazzola, Franco Andaloro (2013). *Marine Pollution from Shipwrecks at the Sea Bottom: A Case Study from the Mediterranean Basin*, In: T.B. Hughes (Ed), *Mediterranean Sea: Ecosystems, Economic Importance and Environmental Threats*, Nova Science Publishers, pp.35-64.

PhD thesis

Traina A., "Contributo allo studio del chimismo degli otoliti di *Dicentrarchus labrax* di allevamento: l'otolite come possibile tracciante ambientale" <http://hdl.handle.net/10579/1102>

Conferences and conventions

-Basilone G., Ferreri R., Quinci E., Traina A., D'Elia M. & Patti B., 2009. Reevaluación de los cálculos de biomasa DEPM con base en la nueva datación de los folículos post-ovulatorios de *Engraulis encrasicolus* en el Mediterráneo central. I Simposio Iberoamericano de Ecología Reproductiva, Reclutamiento y Pesquerías (SIBECORP). Vigo (Spagna), 24-28/11/2009.

-Ferreri R., Basilone G., Quinci E., Traina A., D'Elia M. 2009. Rivalutazione delle stime di biomassa DEPM in base alla nuova datazione dei follicoli post-ovulatori di *Engraulis encrasicolus* nel Mediterraneo centrale. XIX Congresso dell'Associazione Italiana di Oceanologia e Limnologia (A.I.O.L.). Isola di S. Servolo (VE), 22-25/09/2009.

-Traina A., Basilone G., Ferreri R., Caruana L., Quinci E., Bonomo S., Masullo T., Cuttitta A., Mazzola S. 2009. Discriminazione di stock e struttura della popolazione di acciughe nel Mediterraneo centrale mediante tecniche di morfometria tradizionale e geometrica. XIX Congresso dell'Associazione Italiana di Oceanologia e Limnologia (A.I.O.L.). Isola di S. Servolo (VE), 22-25/09/2009.

-Genovese S., Gancitano S., Buscaino G., Buffa G., Cuttitta A., Patti B., Traina A., Mazzola S. Prime osservazioni biometriche sui tonni (*Thunnus thynnus* L., 1758) catturati nelle stagioni di pesca 2005 e 2006 presso la tonnara a rete fissa di Favignana (Sicilia). *Biologia Marina Mediterranea* 15 (1) 2008 "Atti XXXIX Congresso SIBM" Cesenatico – Ravenna, 9-13 giugno 2008 PAGINE 473 ISSN:1123-4245

-Ferreri R., Basilone G., Traina A., De Luca B., Saborido-Rey F., Tutino L., Mazzola S. 2008. Validation of macroscopic maturity stages according to the microscopic histological examination for European Anchovy". 43rd European Marine Biology Symposium. Ponta Delgada, Azores (Portugal), 8-12/09/2008.