

Francesco Esposito



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Current Position: Technologist

Current Affiliation:

Integrated Marine Ecology Department, Marine Biotechnology Laboratory, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Biological Sciences - Università degli Studi di Napoli 'Federico II', Italy	Master degree (Laurea)	1995	Biological Sciences. Marine Biology. Graduation Thesis: Life cycles of Dinoflagellates.
Stazione Zoologica Anton Dohrn, Marine Botany Laboratory, Napoli, Italy	CTER (II-III)	1985-1999	Marine Phytoplankton. Algal Culturing Techniques. SEM-TEM. LTER-MC Marine Observatory in the Gulf of Naples: Sampling, Isolation and Purification Techniques for Microalgae, Perpetual Maintenance.
Stazione Zoologica Anton Dohrn, Ecophysiology Laboratory, Napoli, Italy	CTER (IV)	2000-2007	Established a Culture Collection of Marine Microalgae. Mass Cultivation of Microalgae. Phytoplankton-zooplankton

			interactions. Intensive Copepod cultivation. Chemical Ecology.
Stazione Zoologica Anton Dohrn, FEEL and Integrated Marine Ecology Department, Marine Biotechnology Laboratory, Napoli, Italy	Technologist	2008-Present	Microalgal Culture: Biotechnology and Applied Phycology. Production of Microalgal Biomass and Secondary Products. Long-Term Microalgae Culture Maintenance. Blue Technology: Drug Discovery.

Current Projects involved:

1) PHARMASEA recently funded European FP7 project KBBE.2012.3.2-01: Innovative marine biodiscovery pipelines for novel industrial products Coordinated by the University of Aberdeen, UK and University of Louven, Belgium <http://www.pharma-sea.eu/>

2) Italian National Project PON01_00117 Antigens and Adjuvants for Vaccines and Immunotherapy Coordinated by Novartis Vaccines & Diagnostics srl http://www.ponrec.it/open-data/risultati/ricerca-industriale/pon01_00117/

3) Italian National Project PON 01- 02782 New nanotechnological strategies for pharmaceuticals targeting circulating metastatic cancer cells Coordinated by BIOGEM scarl http://www.ponrec.it/open-data/risultati/ricerca-industriale/PON01_02782

4) Italian National Project PON 01-02093 Study of new technologies and technology platforms to improve production processes of active pharmaceutical ingredients of industrial interest and research of new bioactive compounds from natural sources.

Publications: publications on ISI-journals

List of publications on ISI-journals of the last 10 years:

1. Turner, J.T., Ianora, A., Miralto, A., Laabir, M., Esposito, F. (2001). Decoupling of copepod grazing rates, fecundity and egg-hatching succes on mixed and alternating diatom and dinoflagellate diets. *Marine Ecology Progress Series* 220: 187-199.
2. Turner, J.T., Ianora, A., Esposito, F. (2002). Zooplankton feeding ecology: does a diet of Phaeocystis support good copepod grazing, survival, egg prodaction and egg hatching succes? *Journal of Plankton Reserch* 24: 1185-1195.
3. Ianora, A., Turner, J.T., Esposito, F., Carotenuto, Y., D'Ippolito, G., Romano, G., Fontana, A., Guisande, C., Miralto, A. (2004). Copepod egg production and hatching success is reduced by maternal diets of a non-neurotoxic strain of the dinoflagellate *Alexandrium tamarense*. *Marine Ecology Progress Series* 280: 199-210.

4. Buttino, I., De Rosa, G., Carotenuto, Y., Mazzella, M., Ianora, A., Esposito, F., Vitiello, V., Quaglia, F., La Rotonda, M. and Miralto, A. (2008). Aldehyde-encapsulating liposomes impair marine grazer survivorship. *Journal of Experimental Biology*. 211: 1426-1433.
5. Ianora, A., Romano, G., Carotenuto, Y., Esposito, F., Roncalli, V., Buttino, I. and Miralto, A. (2011). Impact of the diatom oxylipin 15S-HEPE on the reproductive success of the copepod *Temora stylifera*. *Hydrobiologia* 666: 265-275.
6. Barreiro, A., Carotenuto, Y., Lamari, N., Esposito, F., D'Ippolito, G., Fontana, A., Kooistra, W., Ianora, A., Miralto, A. and Guisande, C. (2011). Diatom induction of reproductive failure in copepods: the effect of PUAs versus non volatile oxylipins. *Marine Biology and Ecology* 401: 13-19.
7. Turner, J.T., Roncalli, V., Ciminiello, P., Dell'Aversano, C., Fattorusso, E., Tartaglione, L., Carotenuto, Y., Romano, G., Esposito, F., Miralto, A. and Ianora, A. (2012). Biogeographic effects of the Gulf of Mexico red tide dinoflagellate *Karenia brevis* on Mediterranean copepods. *Harmful Algae* 16: 63-73.
8. Carotenuto, Y., Esposito, F., Pisano, F., Lauritano, C., Perna, M., Miralto, A. and Ianora, A. (2012). Multi-generation cultivation of the copepod *Calanus helgolandicus* in a re-circulating system. *Journal of Experimental Marine Biology and Ecology* 418: 46-58.
9. Zhang, J., Wu, C., Pellegrini, D., Romano, G., Esposito, F., Ianora, A. and Buttino, I. (2013). Effects of different monoalgal diets on egg production, hatching success and apoptosis induction in a Mediterranean population of the calanoid copepod *Acartia tonsa* (Dana). *Aquaculture* 400: 65-72.
10. Zhang, J., Ianora, A., Wu, C., Pellegrini, D., Esposito, F. and Buttino, I. (2015). How to increase productivity of the copepod *Acartia tonsa* (Dana): effects of population density and food concentration. *Aquaculture Research* 46: 2982-2990.