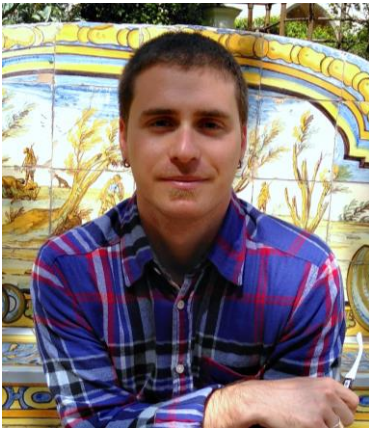


## Andrea Broccoli



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**Current Position:** Ph. D. student

Director of Studies: Dr. Maria Immacolata Ferrante

Internal Supervisor: Dr. Diana Sarno

External Supervisor: Professor Peter von Dassow

Advisor: Dr. Marina Montresor

Program: Open University, XXIV cycle

**Affiliation:**

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

**Education/Training/Experience**

<b>Institute and Location</b>	<b>Degree / Function</b>	<b>Year</b>	<b>Field of Study</b>
Università degli Studi di Firenze, Dipartimento di Biologia (IT)	Tirocinio	2016	Fotoecologia ed ecologia del fitoplancton
Agenzia Regionale Toscana per la Protezione Ambientale (IT)	Tirocinio	2016	Biologia marina ed ecologia del fitoplancton
Università degli Studi di Firenze (IT)	<b>Laurea Triennale</b>	2012-2016	<b>Scienze Biologiche</b>
Istituto Superiore per la Protezione Ambientale (IT)	Tirocinio	2018	Ecotossicologia
Università degli Studi di Firenze (IT)	<b>Laurea Magistrale</b>	2019	<b>Biologia Ambientale</b>

Open University (UK) - Stazione Zoologica Anton Dohrn of Naples (IT)	<b>Studente PhD</b>	2022-now	<b>Biologia delle diatomee e genomica funzionale</b>
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### Appointments and awards

2021: Abilitazione professionale da Biologo

### Publications

#### *Journal Papers*

Pastorino, P., Prearo, M., Anselmi, S., Broccoli, A., Provenza, F., Barcelò, D., & Renzi, M. (2022). Ecotoxicity of basil (*Ocimum Basilicum*) extract in aquaculture feeds: Is it really eco-safe for the aquatic environment? *Ecological Indicators*, 142, 109173. <https://doi.org/10.1016/j.ecolind.2022.109173>

Pastorino, P., Broccoli, A., Anselmi, S., Bagolin, E., Prearo, M., Barceló, D., & Renzi, M. (2022). The microalgae *Chaetoceros tenuissimus* exposed to contaminants of emerging concern: A potential alternative to standardized species for marine quality assessment. *Ecological Indicators*, 141, 109075. <https://doi.org/10.1016/j.ecolind.2022.109075>

Pastorino, P., Broccoli, A., Bagolin, E., Anselmi, S., Cavallo, A., Prearo, M., & Renzi, M. (2021). A Multidisciplinary Approach to Evaluate the Effects of Contaminants of Emerging Concern on Natural Freshwater and Brackish Water Phytoplankton Communities. *Biology*, 10(10). <https://doi.org/10.3390/biology10101039>

Pignattelli, S., Broccoli, A., & Renzi, M. (2021). Stress Effect Induced by Microplastics Coupled with Acid Rain, on Garden Cress, During Short and Long Time: Two Exposures in Comparison. *Annals of Agricultural & Crop Sciences*, 6(6). <https://doi.org/10.26420/annagriccropsci.2021.1094>

Piccardo, M., Provenza, F., Anselmi, S., Broccoli, A., Terlizzi, A., & Renzi, M. (2021). Use of Sediqualsoft® to Determine the Toxicity of Cigarette Butts to Marine Species: A Weather Simulation Test. *Journal of Marine Science and Engineering*, 9(7). <https://doi.org/10.3390/jmse9070734>

Broccoli, A., Morroni, L., Valentini, A., Vitiello, V., Renzi, M., Nuccio, C., & Pellegrini, D. (2021). Comparison of different ecotoxicological batteries with WOE approach for the environmental quality evaluation of harbour sediments. *Aquatic Toxicology*, 237, 105905. <https://doi.org/10.1016/j.aquatox.2021.105905>

Broccoli, A., Anselmi, S., Cavallo, A., Ferrari, V., Prevedelli, D., Pastorino, P., & Renzi, M. (2021). Ecotoxicological effects of new generation pollutants (nanoparticles, amoxicillin and white musk) on freshwater and marine phytoplankton species. *Chemosphere*, 279, 130623. <https://doi.org/10.1016/j.chemosphere.2021.130623>

Pignattelli, S., Broccoli, A., Piccardo, M., Terlizzi, A., & Renzi, M. (2021). Effects of polyethylene terephthalate (PET) microplastics and acid rain on physiology and growth of *Lepidium sativum*. *Environmental Pollution*, 282, 116997. <https://doi.org/10.1016/j.envpol.2021.116997>

- Pignattelli, S., Broccoli, A., Piccardo, M., Feline, S., Terlizzi, A., & Renzi, M. (2021). Short-term physiological and biometrical responses of *Lepidium sativum* seedlings exposed to PET-made microplastics and acid rain. *Ecotoxicology and Environmental Safety*, 208, 111718. <https://doi.org/10.1016/j.ecoenv.2020.111718>
- Renzi, M., Cilenti, L., Scirocco, T., Grazioli, E., Anselmi, S., Broccoli, A., Pauna, V., Provenza, F., & Specchiulli, A. (2020). Litter in alien species of possible commercial interest: The blue crab (*Callinectes sapidus* Rathbun, 1896) as case study. *Marine Pollution Bulletin*, 157, 111300. <https://doi.org/10.1016/j.marpolbul.2020.111300>
- Pignattelli, S., Broccoli, A., & Renzi, M. (2020). Physiological responses of garden cress (*L. sativum*) to different types of microplastics. *Science of The Total Environment*, 727, 138609. <https://doi.org/10.1016/j.scitotenv.2020.138609>
- Renzi, M., Blašković, A., Broccoli, A., Bernardi, G., Grazioli, E., & Russo, G. (2020). Chemical composition of microplastic in sediments and protected detritivores from different marine habitats (Salina Island). *Marine Pollution Bulletin*, 152, 110918. <https://doi.org/10.1016/j.marpolbul.2020.110918>