

## Emanuela Buschi



Born in Senigallia (AN; Italy)

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Current position : Post Doc

Department in Ecosustainable Marine Biotechnology,  
Stazione Zoologica Anton Dohrn,  
Fano Marine Center,  
Fano (PU), Italy

### **Education/Training/Experience**

<b>Institute and Location</b>	<b>Degree / Function</b>	<b>Year</b>	<b>Field of Study</b>
Polytechnic University of Marche (UNIVPM), Ancona, Italy	Master Degree	2011-2013	Marine Biology
Department of Life and Environment Science (UNIVPM), Ancona, Italy	Scholarship	2014-2016	Marine Biology and Ecology
Department of Life and Environment Science (UNIVPM) and Stazione Zoologica Anton Dohrn (Napoli)	Ph.D.	2016- 2019	Marine Biology and Ecology
Department of Life and Environment Science (UNIVPM), Ancona, Italy	Post-doc	2019-2021	Marine Ecology/ Environmental Sustainability
Stazione Zoologica Anton Dohrn (Fano Marine Center)	Post-doc	2021-present	Marine Ecology/ Environmental Sustainability/ Bioremediation

## **Appointments and awards**

2014: Winner of Rotary Club Ancona Degree Award 2014 with the thesis titled "Relationship between trophic status of marine sediments and meiofaunal diversity along the Northern Adriatic coasts".  
Supervisor: Prof. Antonio Pusceddu.

## **Students' supervision**

Co-supervisor of a master's thesis in Marine Biology at the Polytechnic University of Marche (2020):  
<https://tesi.univpm.it/handle/20.500.12075/8244>

Teaching support for the course "Field practices: marine monitoring" at the Polytechnic University of Marche, from 2021 to present.

Laboratory tutor for "Marine Biology" and "Marine Ecology" courses at the Polytechnic University of Marche, from 2017 to 2019.

## **Others**

Participation in different project: LIFE Sedremed (2021-present); PON PlaCE (2019-2021); PNRA DEMBAI (2016-2018); FIRB HI-BEF (2014-2016).

## **Publications**

**Buschi, E.**, Dell'Anno, A., Tangherlini, M., Stefanni, S., Martire, M. L., Núñez-Pons, L., ... & Corinaldesi, C. (2023). Rhodobacteraceae dominate the core microbiome of the sea star *Odontaster validus* (Koehler, 1906) in two opposite geographical sectors of the Antarctic Ocean. *Frontiers in Microbiology*, 14.

Arcadi, E., **Buschi, E.**, Rastelli, E., Tangherlini, M., De Luca, P., Esposito, V., ... & Danovaro, R. (2023). Novel insights on the Bacterial and Archaeal diversity of the Panarea shallow-Water Hydrothermal vent field. *Microorganisms*, 11(10), 2464.

Dell'Anno, F., van Zyl, L. J., Trindade, M., **Buschi, E.**, Cannavacciuolo, A., Pepi, M., ... & Rastelli, E. (2023). Microbiome enrichment from contaminated marine sediments unveils novel bacterial strains for petroleum hydrocarbon and heavy metal bioremediation. *Environmental Pollution*, 317, 120772.

Elbaraasi, H., Mohamed, M. A., Elsilini, O., Jenjan, H., Corinaldesi, C., **Buschi, E.**, & Azzurro, E. (2022). The Yucatan molly *Poecilia velifera* (Regan, 1914)(Cyprinodontiformes: Poeciliidae): an invasive species in the Mediterranean lagoon of Ayn Zayanah (Benghazi, Libya). *BioInvasions Record*, 11(2).

Dell'Anno, F., Rastelli, E., **Buschi, E.**, Barone, G., Beolchini, F., & Dell'Anno, A. (2022). Fungi can be more effective than bacteria for the bioremediation of marine sediments highly contaminated with heavy metals. *Microorganisms*, 10(5), 993.

Ravaglioli, C., Lardicci, C., Pusceddu, A., Arpe, E., Bianchelli, S., **Buschi, E.**, Bulleri, F. (2019). Ocean acidification alters meiobenthic assemblage composition and organic matter degradation rates in seagrass sediments. *Limnology and Oceanography* 00, 1–14.

Corinaldesi, C., Tangherlini, M., Rastelli E., **Buschi, E.**, Lo Martire, M., Danovaro R., Dell'Anno, A. (2019). High diversity of benthic bacterial and archaeal assemblages in deep-Mediterranean canyons and adjacent slopes. *Progress in Oceanography* 171, 154–161.

Bianchelli, S., **Buschi, E.**, Danovaro, R., Pusceddu, A. (2018). Nematode biodiversity and benthic trophic state are simple tools for the assessment of the environmental quality in coastal marine ecosystems. *Ecological Indicators* 95, 270–287.

Gribben P.E., Thomas T., Pusceddu A., Bonechi L., Bianchelli S., **Buschi E.**, Nielsen S., Ravaglioli C., Bulleri F. (2018). Below-ground processes control the success of an invasive seaweed. *Journal of Ecology*. <https://doi.org/10.1111/1365-2745.12966>.

Bianchelli, S., **Buschi, E.**, Pusceddu, A., Danovaro, R. (2016). Biodiversity loss and turnover in alternative states in the Mediterranean Sea: a case study on meiofauna. *Scientific Report* volume 6, Article number: 34544, doi:10.1038/srep34544.

Bianchelli, S., Pusceddu, A., **Buschi, E.**, Danovaro, R. (2016). Trophic status and meiofauna biodiversity in the Northern Adriatic Sea: insights for the assessment of good environmental status. *Marine Environmental Research* 113, 18-30 doi:10.1016/j.marenvres.2015.10.010.

### **Personal website**

Google Scholar: <https://scholar.google.it/citations?user=UwyewoMAAAAJ&hl=it>