

Jessica Pazzaglia



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Current Position: Ricercatore - III livello professionale

Affiliation:

Dep. Ecologia Marina Integrata, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Urbino, Italy	Bachelor's Degree	2011- 2014	Biology (cv environment) <i>Title: "Biodiversity of meiofauna of hard substrates: a case of study in Ligurian Sea (Italy)"</i>
University of Trieste, Italy	Master's Degree	2015- 2017	Ecology of global changes <i>Title: "Structural and functional characterization of macrofaunal communities influenced by sewage discharge: a case of study in the Gulf of Trieste (Northern Adriatic Sea)"</i>
National Institute of Oceanography and Experimental Geophysics (OGS), Italy	Training experience	2017-2018	Structural and functional characterization of macrofaunal communities influenced by sewage discharge

Consiglio Nazionale delle Ricerche – ISMAR – Istituto di Scienze Marine	Collaborating as student	2017	Macrozoobenthos and Microzooplankton sampling
Stazione Zoologica Anton Dohrn, Napoli - University of Trieste	PhD in Ambiente e Vita	2018-2021	Biology (molecular ecology) <i>Title: “Living with global changes: physiological and molecular mechanisms as the basis for seagrasses resilience in a changing world”</i>
Stazione Zoologica Anton Dohrn	Post-Doc fellow (borsa di ricerca)	2021-2022	Exploring the genetic and epigenetic basis of the phenotypic plasticity of seagrasses to environmental changes
Stazione Zoologica Anton Dohrn	Post-Doc fellow (assegno di ricerca)	2022-2023	Exploring stress memory and its clonal transmission in seagrasses
Stazione Zoologica Anton Dohrn	Ricercatore - III livello professionale	2023-current	National Biodiversity Future Center”, tematica “Biodiversità” : Ecologia molecolare delle fanerogame marine

Publications

- Ma, X., Vanneste, S., Chang, J., Ambrosino, L., Barry, K., Bayer, T., ... & Van de Peer, Y. (2024). Seagrass genomes reveal ancient polyploidy and adaptations to the marine environment. *Nature plants*, 10(2), 240-255.
- Santillán-Sarmiento, A., Pazzaglia, J., Ruocco, M., Dattolo, E., Ambrosino, L., Winters, G., ... & Procaccini, G. (2023). Gene co-expression network analysis for the selection of candidate early warning indicators of heat and nutrient stress in *Posidonia oceanica*. *Science of The Total Environment*, 877, 162517.
- Pazzaglia, J., Dattolo, E., Ruocco, M., Santillán-Sarmiento, A., Marin-Guirao, L., & Procaccini, G. (2023). DNA methylation dynamics in a coastal foundation seagrass species under abiotic stressors. *Proceedings of the Royal Society B*, 290(1991), 20222197.
- Pazzaglia, J., Santillán-Sarmiento, A., Ruocco, M., Dattolo, E., Ambrosino, L., Marín-Guirao, L., & Procaccini, G. (2022). Local environment modulates whole-transcriptome expression in the seagrass *Posidonia oceanica* under warming and nutrients excess. *Environmental Pollution*, 303, 119077.
- Pazzaglia, J., Badalamenti, F., Bernardeau-Esteller, J., Ruiz, J. M., Giacalone, V. M., Procaccini, G., & Marín-Guirao, L. (2022). Thermo-priming increases heat-stress tolerance in seedlings of the Mediterranean seagrass *P. oceanica*. *Marine Pollution Bulletin*, 174, 113164.
- Pazzaglia, J., Reusch, T. B., Terlizzi, A., Marín-Guirao, L., & Procaccini, G. (2021). Phenotypic plasticity under rapid global changes: The intrinsic force for future seagrasses

survival. *Evolutionary Applications*, 14(5), 1181-1201.

- Vesal, S. E., Nasi, F., Pazzaglia, J., Ferrante, L., Auriemma, R., Relitti, F., ... & Del Negro, P. (2021). Assessing the sewage discharge effects on soft-bottom macrofauna through traits-based approach. *Marine Pollution Bulletin*, 173, 113003.
- Pazzaglia, J., Nguyen, H. M., Santillán-Sarmiento, A., Ruocco, M., Dattolo, E., Marín-Guirao, L., & Procaccini, G. (2021). The genetic component of seagrass restoration: What we know and the way forwards. *Water*, 13(6), 829.
- Pazzaglia, J., Santillán-Sarmiento, A., Helber, S. B., Ruocco, M., Terlizzi, A., Marín-Guirao, L., & Procaccini, G. (2020). Does warming enhance the effects of eutrophication in the seagrass *Posidonia oceanica*?. *Frontiers in Marine Science*, 7, 564805.