

## Mirko Mutalipassi



Tel.: +39 081 5833XXX

Fax: +39 081 7641355

e-mail: mirko.mutalipassi@szn.it

Skype: mirko.mutalipassi

**Current Position:** Researcher

**Affiliation:**

Emi Department, Stazione Zoologica Anton Dohrn, Napoli (Italy)

### Education/Training/Experience

| Institute and Location   | Degree / Function | Year         | Field of Study  |
|--|-------------------|--------------|---|
| Master Degree in Biology of Marine Productions - University of Naples Federico II – Naples (Italy) | Master (Laurea)   | 2010-2013    | Biological sciences   |
| The Open University – Stazione Zoologica Anton Dohrn - Ischia (Italy)                              | Ph.D.             | 2015-2019    | Life sciences   |
| Department of BluBio, Stazione Zoologica Anton Dohrn – Ischia (Italy)                              | Postdoc           | 2018-2019    | Induction of marine sex shift processes towards applied environmental and mariculture biotechnologies |
| Stazione Zoologica Anton Dohrn/ Centro Nazionale delle Ricerche – Ischia (Italy)                   | Postdoc           | 2019-2021    | Project ADVISE - Antitumor Drugs and Vaccines from the SEa  |
| Stazione Zoologica Anton Dohrn/ Centro Nazionale delle Ricerche – Naples - Amendolara (Italy)      | CTER              | 2021-2023    | Chemical ecology, biotechnology, and environmental monitoring.  |
| Stazione Zoologica Anton Dohrn/ Centro Nazionale delle Ricerche – Naples - Amendolara (Italy)      | Researcher        | 2023-ongoing | Chemical ecology in marine environments, global change studies,                                       |

|  |  |  |                                  |
|--|--|--|----------------------------------|
|  |  |  | holobionts, bioactive compounds. |
|--|--|--|----------------------------------|

## **Publications**

Author of 30 publications on ISI-journals and 3 book chapters

### ***List of publications of the last 10 years:***

#### ***Journal Papers***<sup>1–30</sup>

1. Perricone, V. *et al.* Nature-based and bioinspired solutions for coastal protection: an overview among key ecosystems and a promising pathway for new functional and sustainable designs. *ICES J. Mar. Sci.* fsad080 (2023).
2. Pennesi, C. *et al.* New insights into the association between epizoic diatoms and the sea turtle *Chelonia mydas*: new *Mastogloia* taxon (Bacillariophyceae) from Iran. *Phycologia* 1–12 (2023).
3. Glaviano, F. & Mutalipassi, M. Automatic Culture of Crustaceans as Models for Science. *Crustaceans: Endocrinology, Biology* (2022).
4. Zupo, V. *et al.* Copepods vs. Salmons Environmental Treats for Crustaceans or Possible Eco-Sustainable Solutions? in *Crustaceans* 213–224 (CRC Press, 2022).
5. Mutalipassi, M., Mazzella, V., Glaviano, F. & Zupo, V. Constitutive and activated toxigenic activity of *Halomiconema metazoicum* (Cyanoprokaryota, Cyanophyta). *Mar. Ecol.* e12697 (2022).
6. Sanchez-Arcos, C. *et al.* Responses of the Macroalga *Ulva prolifera* Müller to Ocean Acidification Revealed by Complementary NMR- and MS-Based Omics Approaches. *Mar. Drugs* **20**, (2022).
7. Mirko Mutalipassi, Eva Terzibasi Tozzini, Alessandro Cellerino. Age and Longevity. in *Evolution, Development and Ecology of Anemonefishes: Model Organisms for Marine Science* (ed. Vincent Laudet, T. R.) (CRC Press, 2022).
8. Mutalipassi, M. *et al.* Editorial: Cyanobacterial and microalgal compounds: Chemical ecology and biotechnological potentials. *Frontiers in Marine Science* **9**, (2022).

9. Mutalipassi, M. *et al.* Ocean Acidification affects Volatile Infochemicals production and perception in fauna and flora associated with *Posidonia oceanica* (L.) Delile. *Frontiers in Marine Science* **9**, (2022).
10. Levy, T. *et al.* Protandric transcriptomes to uncover parts of the crustacean sex-differentiation puzzle. *Front. Mar. Sci.* **8**, (2021).
11. Mutalipassi, M. *et al.* Bioactive compounds of nutraceutical value from fishery and aquaculture discards. *Foods* **10**, (2021).
12. Mutalipassi, M. *et al.* Symbioses of Cyanobacteria in marine environments: Ecological insights and biotechnological perspectives. *Mar. Drugs* **19**, (2021).
13. Mutalipassi, M., Esposito, R., Ruocco, N. & Viel, T. Bioactive Compounds of Nutraceutical Value from Fishery and Aquaculture Discards. *Foods* 2021, 10, 1495. (2021).
14. Mutalipassi, M. *et al.* Ocean acidification alters the responses of invertebrates to wound-activated infochemicals produced by epiphytes of the seagrass *Posidonia oceanica*. *J. Exp. Mar. Bio. Ecol.* **530–531**, 151435 (2020).
15. Zupo, V. *et al.* Coupling feeding activity, growth rates and molecular data shows dietetic needs of *Ciona robusta* (Ascidiacea, Phlebobranchia) in automatic culture plants. *Sci. Rep.* **10**, 11295 (2020).
16. Riccio, G. *et al.* Ten-year research update review: Antiviral activities from marine organisms. *Biomolecules* vol. 10 1–36 Preprint at <https://doi.org/10.3390/biom10071007> (2020).
17. Chiarore, A. *et al.* Sea urchin chronicles. The effect of oxygen super-saturation and marine polluted sediments from Bagnoli-Coroglio Bay on different life stages of the sea urchin *Paracentrotus lividus*. *Mar. Environ. Res.* (2020).
18. Sahm, A. *et al.* Analysis of the coding sequences of clownfish reveals molecular convergence in the evolution of lifespan. *BMC Evol. Biol.* **19**, 89 (2019).
19. Mutalipassi, M. *et al.* Growth and toxicity of *Halomicronema metazoicum* (Cyanoprokaryota, Cyanophyta) at different conditions of light, salinity and temperature. *Biol. Open* **8**, (2019).

20. Zupo, V. *et al.* Inducers of settlement and metamorphosis of the shrimp *Hippolyte inermis* Leach in *Posidonia oceanica*. *Sci. Rep.* **9**, 1–11 (2019).
21. Mutalipassi, M., Mazzella, V. & Zupo, V. Ocean acidification influences plant-animal interactions: The effect of *Cocconeis scutellum parva* on the sex reversal of *Hippolyte inermis*. *PLoS One* **14**, e0218238 (2019).
22. Zupo, V. *et al.* Distribution of toxigenic *Halomicronema* spp. in adjacent environments on the island of Ischia: Comparison of strains from thermal waters and free living in *Posidonia oceanica* meadows. *Toxins* **11**, 99 (2019).
23. Mutalipassi, M. Re-defining the concept of Model Species: an experimental approach on a range of marine animals. Ph.D. Thesis. The Open University. (The Open University, 2019).
24. Zupo, V. *et al.* Roe enhancement of *Paracentrotus lividus*: Nutritional effects of fresh and formulated diets. *Aquacult. Nutr.* **25**, 26–38 (2019).
25. Ruocco, N. *et al.* First evidence of *Halomicronema metazoicum* (Cyanobacteria) free-living on *Posidonia oceanica* leaves. *PLoS One* **13**, e0204954 (2018).
26. Zupo, V., Glaviano, F., Caramiello, D. & Mutalipassi, M. Effect of five benthic diatoms on the survival and development of *Paracentrotus lividus* post-larvae in the laboratory. *Aquaculture* (2018).
27. Mutalipassi, M., Maibam, C. & Zupo, V. The sex change of the caridean shrimp *Hippolyte inermis* Leach: temporal development of the gonopore morphology. *Zoomorphology* **137**, 377–388 (2018).
28. Mutalipassi, M., Di Natale, M., Mazzella, V. & Zupo, V. Automated culture of aquatic model organisms: Shrimp larvae husbandry for the needs of research and aquaculture. *Animal* **12**, 155–163 (2018).
29. Zupo, V., Mutalipassi, M., Fink, P. & Di Natale, M. Effect of Ocean Acidification on the communications among invertebrates mediated by plant-produced Volatile Organic Compounds. *Glob. Ecol. Biogeogr.* **1**, 012–018 (2016).

30. Mutalipassi, M. *et al.* Food Web in an Artificial Basin of Southern Italy: Lake Angitola of Calabria. *Journal of Nutritional Ecology and Food Research* **1**, 270–276 (2014).