Federica Ragazzola

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Current Position: Primo Ricercatore II livello, Senior Researcher

Current Affiliation:

Integrative Marine Ecology Department, Genoa Marine Center, Villa del Principe, Piazza del Principe 4, 16126 Genoa, Italy

Education/Training/Experience

Institute and Location	Degree/Function	Year	Field of Study
Università degli studi di Sassari	Laurea Magistrale	2002	Natural Sciences
Università degli studi di Pisa	Ph.D	2009	Biological Sciences
GEOMAR, Helmholtz Centre for Ocean Research Kiel, Wischoffstrasse 1-3, 24148 Kiel, Germany	Post Doc	2009-2011	Biogeochemistry_ Marine Botany (BIOACID project)
Bristol University, Wills memorial building, Bristol Uk, Department of Earth Science	Post Doc	2012-2014	PalaeoBiology -Marine Botany (climate change)
Portsmouth University, Institute of Marine Sciences, Ferry Road, Portsmouth	Lecturer	2015-2016	Marine Botany
Portsmouth University, Institute of Marine Sciences, Ferry Road, Portsmouth	Senior Lecturer	2017-2020	Marine Botany
Stazione Zoologica Anton Dohrn, Napoli, Italy	Ricercatore III Livello /Researcher	2021-2024	Marine Botany

Stazione Zoologica Anton Dohrn, Napoli, Italy	Primo Ricercatore, II Livello/Senior Researcher	2024 - present	Marine Botany

Appointments and awards

2018 - 2020	Scientific coordinator of the Institute of Marine Science (for the Faculty of Science and health). University of Portsmouth, UK
2016 - 2020	Member of the research and Innovation committee. School of Biology, University of Portsmouth, UK.
2018 - 2019	Chair of the logistic committee of the Institute of Marine Science (for the Faculty of Science and health). University of Portsmouth, UK.
2016 - 2019	Course Leader for the Master in "Applied Aquatic Biology", UK.
2016 - 2019	Member of the school executive board (School of Biology). University of Portsmouth, UK.
2016 - 2019	Equality and diversity committee chair (School of Biology). University of Portsmouth, UK.
2019 -	Advisory board: Climate Change Ecology (Elsevier)
2015 -	Editorial board: PeerJ (climate change section)

Other

- 2025 - 2028 Vice Chairperson of the International Coralline Algae Society (International Coralline Algae Society)
- Since 2015 - Elected Fellow of the Linnean Society.
- Since 2014 – Member of the British Phycological Society

PUBLICATIONS:

BOOKS:

• Gamble, C., Glover, A., Debney, A., Bertelli, C., Green, B., Hendy, I., Lilley R, Nuttila H., Potouroglou M., Ragazzola F & Preston, J. (2021, November). Seagrass Restoration Handbook: UK and Ireland. Zoological Society of London ISBN (electronic): 9780900881909.

• Hendy I, Ragazzola F (2021). Monitoring a seagrass restoration project. In: Seagrass Restoration Handbook (eds. Gamble C., Debney, A., Glover, A., Bertelli, C., Green, B., Hendy, I., Lilley, R., Nuuttila, H., Potouroglou, M., Ragazzola, F., Unsworth, R. and Preston, J). Zoological Society of London, UK., London, UK.

PEER REVIEWED JOURNALS

- Nannini, M., Cerpelloni, M., Gaspar, T. L., Peña, V., Tuya, F., Peñas, J., ...Ragazzola, F., & Schubert, N. (2025). Withstanding the heat: Resilience of free-living coralline algae to marine heatwaves. *Marine Environmental Research*, 107538.

- Findlay, H. S., Feely, R. A., Grabb, K., Jewett, E. B., Keister, E. F., Kitch, G., ... Ragazzola, F., & Wright-Fairbanks, L. (2025). Perspectives on Marine Carbon Dioxide Removal from the Global Ocean Acidification Observing Network. *Oceanography*, *38*(3), 24-39.

- Ward, E. A., Reynolds, S. E., Leng, M. J., Lacey, J. H., Cerasuolo, M., Paxton, B., ... & Preston, J. (2025). Mixed provenance of organic carbon in Northeast Atlantic temperate intertidal seagrass sediments. Scientific Reports, 15(1), 27892.

- Jardim, V. L., Grall, J., Barros-Barreto, M. B., Bizien, A., Benoit, T., Braga, J. C., ... & Burdett, H. L. (2025). A common terminology to unify research and conservation of coralline algae and the habitats they create. Aquatic Conservation: Marine and Freshwater Ecosystems, 35(3), e70121.

- Bulleri, F., Schubert, N., Hall-Spencer, J. M., Basso, D., Burdett, H. L., Francini-Filho, R. B., ... & Silva, J. (2025). Positive species interactions structure rhodolith bed communities at a global scale. Biological Reviews, 100(1), 428-444.

- Pinna, F., Ragazzola, F., Piazzi, L., Evans, D., Raddatz, J., & Ceccherelli, G. (2024). Crustose coralline algae exhibit complex responses to breakage under current and future climate scenarios. Marine Pollution Bulletin, 209, 117219.

- Ward, E. A., Cerasuolo, M., Ragazzola, F., Reynolds, S. E., & Preston, J. (2024). Global patterns in seagrass leaf and sediment carbon isotope fractionation have implications for carbon provenance calculations in blue carbon accreditation. Ecological Indicators, 167, 112546.

- Schubert, N., Tuya, F., Peña, V., Horta, P. A., Salazar, V. W., Neves, P., ... & Silva, J. (2024). "Pink power"—the importance of coralline algal beds in the oceanic carbon cycle. Nature Communications, 15(1), 8282.

- Kolzenburg, R., Ragazzola, F., Tamburello, L., Nicastro, K. R., McQuaid, C. D., & Zardi, G. I. (2024). Photosynthetic response to a winter heatwave in leading and trailing edge populations of the intertidal red alga Corallina officinalis (Rhodophyta). Acta Oceanologica Sinica, 43(7), 70-77.

- Giaccone, T., Ragazzola, F., Barone, P., Condemi, C., & Mannino, A. M. (2024). The flourishing of Laminaria ochroleuca in the strait of Messina (Sicily, Italy): resilience population between "Scylla and Charybdis". Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology, 158(3), 341-343.

- Ragazzola, F., Nannini, M., Raiteri, G., Bordone, A., Kolzenburg, R., Romanelli, E., ... & Lombardi, C. (2024). Early stage ecological communities on artificial algae showed no difference in diversity and abundance under ocean acidification. Hydrobiologia, 851(8), 1939-1955.

- Tuya, F., Schubert, N., Aguirre, J., Basso, D., Bastos, E. O., Berchez, F., Ragazzola,F... & Tâmega, F. T. (2023). Levelling-up rhodolith-bed science to address global-scale conservation challenges. Science of The Total Environment, 164818.

- Kolzenburg, R., Coaten, D. J., & Ragazzola, F. (2023). Physiological characterisation of the calcified alga Corallina officinalis (Rhodophyta) from the leading to trailing edge in the Northeast Atlantic. European Journal of Phycology, 58(1), 83-98.

- López Correa, M., Teichert, S., Ragazzola, F., Cazorla Vázquez, S., Engel, F. B., Hurle, K., ... & Lombardi, C. (2023). Structural and Geochemical Assessment of the Coralline Alga Tethysphytum antarcticum from Terra Nova Bay, Ross Sea, Antarctica. Minerals, 13(2), 215.

- Pinna, F., Caragnano, A., Piazzi, L., Ragazzola, F., Stipcich, P., Rindi, F., & Ceccherelli, G. (2022). The Mediterranean bioconstructor Lithophyllum stictiforme shows adaptability to future warming. Frontiers in Marine Science, 9.

- Hendy, I. W., Woolford, K., Vincent-Piper, A., Burt, O., Schaefer, M., Cragg, S. M., ... & Ragazzola, F. (2021). Climate-driven golden tides are reshaping coastal communities in Quintana Roo, Mexico. Climate Change Ecology, 100033

- Kolzenburg, R., D'Amore, F., McCoy, S. J., & Ragazzola, F. (2021). Marginal populations show physiological adaptations and resilience to future climatic changes across a North Atlantic distribution. Environmental and Experimental Botany, 188, 104522.

- Ragazzola, F., Marchini, A., Adani, M., Bordone, A., Castelli, A., Cerrati, G., ... & Lombardi, C. (2021). An intertidal life: Combined effects of acidification and winter heatwaves on a coralline alga (Ellisolandia elongata) and its associated invertebrate community. Marine Environmental Research, 169, 105342.

- Ragazzola, F., Kolzenburg, R., Adani, M., Bordone, A., Cantoni, C., Cerrati, G., ... & Lombardi, C. (2021). Carbonate chemistry and temperature dynamics in an alga dominated habitat. Regional Studies in Marine Science, 44, 101770.

- Ragazzola, F., Kolzenburg, R., Zekonyte, J., Teichert, S., Jiang, C., Žuljević, A., ... & Falace, A. (2020). Structural and Elemental Analysis of the Freshwater, Low-Mg Calcite Coralline Alga Pneophyllum cetinaensis. Plants, 9(9), 1089.

- Ragazzola, F., Caragnano, A., Basso, D., Schmidt, D., & Fietzke, J. (2020). Establishing temperate crustose Early Holocene coralline algae as archives for palaeoenvironmental reconstructions of the shallow water habitats of the Mediterranean Sea. Palaeontology, 63(1), 155-170

- Rendina, F., Bouchet, P. J., Appolloni, L., Russo, G. F., Sandulli, R., Kolzenburg, R., ... & Ragazzola, F. (2019). Physiological response of the coralline alga Corallina officinalis L. to both predicted long-term increases in temperature and short-term heatwave events. Marine Environmental Research, 104764.

- Dobretsov, S., Coutinho, R., Rittschof, D., Salta, M., Ragazzola, F., & Hellio, C. (2019). The oceans are changing: impact of ocean warming and acidification on biofouling communities. Biofouling, 1-11.

- Kolzenburg, R., Nicastro, K. R., McCoy, S. J., Ford, A. T., Zardi, G. I., & Ragazzola, F. (2019). Understanding the margin squeeze: Differentiation in fitness-related traits be-tween central and trailing edge populations of Corallina officinalis. Ecology and Evolution, 9(10), 5787-5801.

- Ragazzola, F., Marchini, A., Vasapollo, C., Castelli, A., Cerrati, G., Gazzola, F., ... & Nannini, M. (2019). Intertidal Mediterranean coralline algae habitat is expecting a shift to-wards a reduced growth and a simplified associated fauna under climate change. Frontiers in Marine Science, 6, 106.

- Tavares, A. I., Nicastro, K. R., Kolzenburg, R., Ragazzola, F., Jacinto, R., & Zardi, G. I. (2018). Isolation and characterization of nine microsatellite markers for the red alga Corallina officinalis. Molecular biology reports, 45(6), 2791-2794.

- Ragazzola, F., Raiteri, G., Fabbri, P., Scafè, M., Florio, M., Nannini, M. & Lombardi, C. (2017). Structural integrity of Ellisolandia elongata reef: a mechanical approach to compare tensile strengths in natural and controlled environments. Marine Ecology 38,5,e12455

- Caragnano, A., Basso, D., Storz, D., Jacob, D. E., Ragazzola, F., Benzoni, F., & Dutrieux, E. (2017). Elemental variability in the coralline alga Lithophyllum yemenense as an archive of past climate in the Gulf of Aden (NW Indian Ocean). Journal of Phycology, 53(2), 381-395.

- Ragazzola, F., Foster, L. C., Jones, C. J., Scott, T. B., Fietzke, J., Kilburn, M. R., & Schmidt, D. N. (2016). Impact of high CO2 on the geochemistry of the coralline algae Lithothamnion glaciale. Scientific reports, 6, 20572.

• Wall, M., Ragazzola, F., Foster, L. C., Form, A., & Schmidt, D. N. (2015). pH up-regulation as a potential mechanism for the cold-water coral Lophelia pertusa to sustain growth in aragonite undersaturated conditions. Biogeosciences, 12(23), 6869-6880.

• Nannini, M., De Marchi, L., Lombardi, C., & Ragazzola, F. (2015). Effects of thermal stress on the growth of an intertidal population of Ellisolandia elongata (Rhodophyta) from N–W Mediterranean Sea. Marine environmental research, 112, 11-19.

• Fietzke, J., Ragazzola, F., Halfar, J., Dietze, H., Foster, L. C., Hansteen, T. H., Eisenhauer, A., & Steneck, R. S. (2015). Century-scale trends and seasonality in pH and temperature for shallow zones of the Bering Sea. Proceedings of the National Academy of Sciences, 112(10), 2960-2965.

• McCoy, S. J., & Ragazzola, F. (2014). Skeletal trade-offs in coralline algae in response to ocean acidification. Nature Climate Change, 4(8), 719.

• Brodie J, Williamson C, Smale D, Kamenos N, Mieszkowska N, Santos R, Cunliffe M, Steinke M, Yesson C, Anderson K M., Asnaghi V, BrownleeC, Burdett H, Burrows M, Col-lins S, Donohughe P, Harvey B, Foggo A, Noisette F, Nunes J, Ragazzola F, Raven J, Schmidt DN, Suggett D, Teichberg M, & Hall-Spencer J. (2014). The future of the NE Atlantic benthic flora in a high CO2 world. Ecology and Evolution, 4(13), 2787–2798.

• Ragazzola, F., Taylor, P. D., Bazzicalupo, P., Okamura, B., & Schmidt, D. N. (2014). A new species of the cheilostome bryozoan Chiastosella in the Southern Ocean, past and present. Polar biology, 37(6), 773-779.

• Ragazzola, F., Foster, L. C., Form, A. U., Büscher, J., Hansteen, T. H., & Fietzke, J. (2013). Phenotypic plasticity of coralline algae in a High CO2 world. Ecology and evolution, 3(10), 3436-3446.

• Ragazzola, F., Foster, L. C., Form, A., Anderson, P. S., Hansteen, T. H., & Fietzke, J. (2012). Ocean acidification weakens the structural integrity of coralline algae. Global change biology, 18(9), 2804-2812.