

Fabio Badalamenti CV

Fabio Badalamenti is Research Director at the Italian National Council of Research, Institute for coastal marine management. Fabio got a PhD in Marine science, University of Messina, Italy (1990). He has a widespread national and international experience particularly in relation to coastal zone management and marine ecology. Renowned international consultant in the fields of marine and coastal ecology and conservation, and fisheries. Scientific lecturer, speaker and writer with a large number of publications to his credit, including reports, studies, conference papers and books.

Main work positions and activities

- Since 2010, Research Director at the Italian National Council of Research (CNR), Institute for coastal marine management (IAMC).
- 2002-09, senior researcher (2002-08) at CNR-IAMC
- 1989-2001, researcher at CNR-IAMC
- Since 2018, Honorary Professor at the University of Edinburgh. Scotland, UK
- 2013-2018, Research fellows at the Harriot Watt University, Edinburgh, Scotland, UK, Centre for Marine Biodiversity and Biotechnology, School of Life Sciences..
- 2007-2013, Guest Member of Staff at the School of Marine Science and Technology, University of Newcastle upon Tyne, UK.
- 2000 -2006, contract professor of Ecology for the University of Palermo.
- Since 2000, supervisor for 9 Ph.D., 16 master degree theses and 8 bachelor thesis degree for students of Italian and foreign Universities.
- Since 1995, invited to give seminars by several Universities, Research Centers, International Institutions and NGOs both in Italy and abroad.
- Since 1990, responsible and/or coordinator for 25 research projects and participation in further 20 projects.

Research activities

Coastal Zone Management

Reef ecology. Benthic fauna and flora, expert on Systematics of Polychaetes. Fish visual censuses, biomass assessment, trophic relationships, energy flow, restocking, acoustic telemetry. Marine Protected Areas (MPAs), criteria for the institution, functioning, "reserve effect". Cultural and socio-economic aspects of MPAs. Fishery reserves. Bio-economic effects of fishery exclusion zones. Marine spatial planning. Biology and ecology of the orange coral *Astroides calycularis*

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Trophic ecology

Food web reconstruction in benthic systems. Carbon and nitrogen stable isotope utilisation in food web reconstruction and assessment of marine organism trophic levels. Trophic level variation within fish length and between areas with different levels of protection.

Seagrasses Long-term monitoring of damage by human activities to *Posidonia oceanica* meadows. In particular, studies on the effects of dredging for gas pipeline deployment,

mitigation of such effects and damage restoration through propagule transplantation. Biology and ecology of *P. oceanica* seedlings.

Published papers on JCR journals

1. Langeneck J., Diez M.E., Nygren A., Salazar-Vallejo S., Carrera-Parra L.F., Vega Fernández T., **Badalamenti F.**, Castelli A., Musco L., in press - Worming its way into Patagonia: an integrative approach reveals the cryptic invasion by *Eulalia clavigera* (Annelida: Phyllodocidae). *Marine Biodiversity*. doi.org/10.1007/s12526-018-0864-y.
2. Musco L., Vega Fernández T., Caroselli E., Roberts J. M and **Badalamenti F.**, In press. Protooperation among small polyps allows the coral *Astroides calycularis* to prey on large jellyfish. *Ecology*. DOI: 10.1002/ecy.2413
3. Noè S., Gianguzza P., Di Trapani F., **Badalamenti F.**, Vizzini S., Vega Fernández T., Bonaviri C., In press -Native predators control the population of an invasive crab in no-take marine protected areas. *Aquatic Conservation: Marine and Freshwater Ecosystems*. DOI: 10.1002/aqc.2921
4. Noè S., **Badalamenti F.**, Bonaviri C. Musco L., Vega Fernández T., Vizzini S. and Gianguzza P., 2018 - Food selection of a generalist herbivore exposed to native and alien seaweeds. *Marine Pollution Bulletin*. 2: 469-473.
5. Bertocci I., **Badalamenti F.**, Lo Brutto S., Mikac B., Pipitone C., Schimmenti E., Vega Fernández T., Musco L., 2017 - Reducing the data-deficiency of threatened European habitats: Spatial variation of sabellariid worm reefs and associated fauna in the Sicily Channel, Mediterranean Sea. *Marine Environmental Research*.130: 325-337.
6. Buhl-Mortensen L., Galparsoro I., Vega Fernández T., Johnson K., D'Anna G., **Badalamenti F.**, Garofalo G., Carlström G., Piwowarczyk J., Rabaut M., Vanaverbeke J., Schipper C., van Dalfsen J., Vassilopoulou V., Issaris Y., van Hoof L., Pecceu E., Hostens K., Pace M.L., Knittweis L., Stelzenmüller V., Todorova V., Doncheva V., 2017 - Maritime ecosystem-based management in practice: Lessons learned from the application of a generic spatial planning framework in Europe. *Marine Policy*. 75:174–186.
7. Chatzigeorgiou G., Keklikoglou K., Faulwetter S., **Badalamenti F.**, Kitsos M.S., Arvanitidis C., 2017 - Midlittoral polychaete communities in the Eastern Mediterranean Sea: new information from the implementation of the Natural Geography in Shore Areas (NaGISA) protocol and comparisons at local and regional scales. *Marine Ecology*. 38:1-15.
8. Musco L., Prada F., D'Anna G., Galasso N.M., Pipitone C., Vega Fernández T., **Badalamenti F.**, 2017 - Turning casualty into opportunity: fragmenting dislodged

- colonies is effective for restoring reefs of a Mediterranean endemic coral. *Ecological Engineering*. 98: 206–212.
9. Willis T.J., Berglöf K.T.L., McGill R.A.R., Musco L., Piraino S., Rumsey C.M., Vega Fernández and **Badalamenti F.**, 2017 - Kleptopredation: a mechanism to facilitate planktivory in a benthic mollusk. *Biology Letters*. 13: 20170447.
 10. Bulleri F., **Badalamenti F.**, Iveša L., Mikac B., Musco L., Jaklin A., Rattray A., Vega Fernández T. and Benedetti-Cecchi L., 2016. The effects of an invasive seaweed on native communities vary along a gradient of land-based human impacts. *PeerJ* 4:e1795.
 11. D'Anna G., Vega Fernández T., Pipitone C., Garofalo G., **Badalamenti F.**, 2016 - Governance analysis in the Egadi Islands Marine Protected Area: A Mediterranean case study. *Marine Policy*. 71: 301–309.
 12. Di Lorenzo M., Vega Fernández T., **Badalamenti F.**, Guidetti P., Starr M.R., Giacalone V.M., Di Franco A., D'Anna G., 2016- Diel activity and variability in habitat use of white sea bream in a temperate marine protected area. *Marine Environmental Research*. 116:1-9.
 13. Gambi M.C., Musco L., Giangrande A., **Badalamenti F.**, Micheli F., Kroeker K.J., 2016 - Distribution and functional traits of polychaetes in a CO₂ vent system: winners and losers among closely related species. *Marine Ecology Progress Series*. 550: 121-134.
 14. Gianguzza P., Di Trapani F., Bonaviri C., Agnetta D., Vizzini., **Badalamenti F.**, 2016 - Size-dependent predation of the mesopredator *Marthasterias glacialis* (L.) (Asteroidea). *Marine Biology*. 163 (3): 1-11.
 15. Milazzo M., Quattrocchi F., Azzurro E., Palmeri A., Chemello R., Di Franco A., Guidetti P., Sala E., Sciandra M., **Badalamenti F.**, García-Charton J.A., 2016 - Warming-related shifts in the distribution of two competing coastal wrasses. *Marine Environmental Research*. 120: 55-67.
 16. Pellón J., **Badalamenti F.**, 2016 - Tentacular release of planulae in Anthozoa: the case of the Mediterranean endemic orange coral *Astroides calycularis* (Scleractinia: Dendrophylliidae). *Coral Reefs*. 35 (4), 1369-1369.
 17. Romano C., Fanelli E., D'Anna G., Pipitone C., Vizzini S., Mazzola A., **Badalamenti F.**, 2016 -Spatial variability of soft-bottom macrobenthic communities in northern Sicily (Western Mediterranean): Contrasting trawled vs. untrawled areas. *Marine Environmental Research*. 122: 113-125.
 18. Schimmenti E., Musco L., Lo Brutto S., Mikac B., Nygren A., **Badalamenti F.**, 2016 – A Mediterranean record of *Eulalia ornata* (Annelida: Phyllodocidae) corroborating its fidelity link with the Sabellaria alveolata-reef habitat. *Mediterranean Marine Science*. 17/2:1-12.
 19. Zenone A., **Badalamenti F.**, Giacalone V.M., Musco L., Pipitone C., Vega Fernández T., D'Anna G., 2016 - Substrate preference and settlement behaviour of the megalopa of the invasive crab *Percnon gibbesi* (Decapoda, Percnidae) in the Mediterranean Sea. *Helgoland Marine Research*. 70 (1), 21:1-7.

20. Agnetta D., **Badalamenti F.**, Ceccherelli G., Di Trapani F., Bonaviri C., Gianguzza P., 2015- Role of two co-occurring Mediterranean sea urchins in the formation of barren from-*Cystoseira* canopy. *Estuarine, Coastal and Shelf Science*. 152: 73-77.
21. Alagna A., Fernández T.V., D'Anna G., Magliola C., Mazzola S. and **Badalamenti F.**, 2015 - Assessing *Posidonia oceanica* seedling substrate preference: an experimental determination of seedling anchorage success in rocky vs. sandy substrates. *PLoS ONE*. 10(4): e0125321. doi:10.1371/journal.pone.0125321
22. **Badalamenti F.**, Alagna A., Fici S., 2015 - Evidences of adaptive traits to rocky substrates undermine paradigm of habitat preference of the Mediterranean seagrass *Posidonia oceanica*. *Scientific Reports*. 5, Article number: 8804. doi:10.1038/srep08804
23. Galasso N. M., Bonaviri C., Di Trapani F., Picciotto M., Gianguzza P., Agnetta D. and **Badalamenti F.**, 2015 - Fish-seastar facilitation leads to algal forest restoration on protected rocky reefs. *Scientific Reports*. 5, Article number: 12409; doi: 10.1038/srep12409.
24. Giacalone V.M., Barausse A., Gristina M., Pipitone C., Visconti V., **Badalamenti F.**, D'Anna G., 2015 - Diel activity and short-distance movement pattern of the European spiny lobster, *Palinurus elephas*, acoustically tracked. *Marine Ecology* 36(3):389–399.
25. Gianguzza P., Di Trapani F., Bonaviri C., Visconti G., Deidun A., **Badalamenti F.**, 2015 - New body metrics to determine asteroid size and weight directly in the field. *Thalassas*. 31(1): 73-82.
26. Telesca L., Belluscio A., Criscoli A., Ardizzone G., Apostolaki E. T., Frascchetti S., Gristina M., Knittweis L., Martin C. S., Pergent G., Alagna A., **Badalamenti F.**, Garofalo G., Gerakaris V., Pace M. L., Pergent-Martini C. and Salomidi M. (2015). Seagrass meadows (*Posidonia oceanica*) distribution and trajectories of change. *Scientific Reports*. 5, Article number: 12505. doi:10.1038/srep12505.
27. Di Lorenzo M., D'Anna G., **Badalamenti F.**, Giacalone V.M., Starr R.M., Guidetti P., 2014 - Fitting the size of no take zones to species movement patterns: a case study on a Mediterranean seabream. *Marine Ecology Progress Series*. 502, 245-255.
28. Musco L., Andaloro F., Mikac B., Mirto S., Vega Fernandez T., **Badalamenti F.**, 2014– Concern about the spread of the invader seaweed *Caulerpa taxifolia* var. *distichophylla* (Chlorophyta: Caulerpales) towards the West Mediterranean. *Mediterranean Marine Science*. 15(3): 532-538.
29. Pipitone C., **Badalamenti F.**, Vega Fernández T., D'Anna G. 2014 - Spatial management of fisheries in the mediterranean sea: problematic issues and a few success stories. In: Magnus L. Johnson and Jane Sandell, editors, *Advances in Marine Biology*, Oxford: Academic Press. 69: 371-402.
30. Agnetta D., Bonaviri C., **Badalamenti F.**, Scianna C., Vizzini S., Gianguzza P., 2013- Functional traits of two co-occurring sea urchins across a barren/forest patch system. *Journal of Sea research*. 76:170–177
31. Alagna A., Vega Fernández T., Terlizzi A., **Badalamenti F.**, 2013 - Influence of microhabitat on seedling survival and growth of the Mediterranean seagrass *Posidonia oceanica* (L.) Delile. *Estuarine, Coastal and Shelf Science*. 119:119-125.

32. Stelzenmüller V., Stamford T., Thomsen F., **Badalamenti F.**, Borja A., Buhl-Mortensen L., Carlstöm J., D'anna G., Dankers N., Degraer S., Dujin M., Fiorentino F., Galparsoro I., Giakoumi S., Gristina M., Johnson K., Jones P.J.S., Katsanevakis S., Knittweis L., Kyriazi Z., Pipitone C., Piwowarczyk J., Rabaut M., Sørensen T.K., Van Dalen J., Vassilopoulou V., Vega Fernández T., Vincx M., Vöge S., Weber A., Wijkmark N., Jak R., Qiu W. & Ter Hofstede, R., 2013 - Monitoring and evaluation of spatially managed areas: A generic framework for implementation of ecosystem based marine management and its application. *Marine Policy*. 37:149–164.
33. **Badalamenti F.**, Pipitone C., D'anna G. & Fiorentino F., 2012 - The trawling ban in Hong Kong's inshore waters - A round of applause and a plea to learn from others' mistakes. *Marine Pollution Bulletin*. 64:1513-1514.
34. D'anna G., Giacalone V. M., Vega Fernandez T., Vaccaro A. M., Pipitone C., Mirto S., Mazzola S. & **Badalamenti F.**, 2012 - Effects of predator and shelter conditioning on hatchery-reared white seabream *Diplodus sargus* (L., 1758) released at sea. *Aquaculture*. 356: 91-97.
35. Gonzalez-Wangueemert M., Vega-Fernandez, T. Perez-Ruzafa A., Giacalone M., D'anna G. & **Badalamenti F.**, 2012 - Genetic considerations on the introduction of farmed fish in marine protected areas: The case of study of white seabream restocking in the Gulf of Castellammare (Southern Tyrrhenian Sea). *Journal of Sea Research*. 68: 41-48.
36. Milazzo M., Azzurro E. & **Badalamenti F.**, 2012 - On the occurrence of the silverstripe blaasop *Lagocephalus sceleratus* (Gmelin, 1789) along the Libyan coast. *Bioinvasions Records*. 1:125-127.
37. Sinopoli M., Fanelli E., D'anna G., **Badalamenti F.** & Pipitone C., 2012 - Assessing the effects of a trawling ban on diet and trophic level of hake, *Merluccius merluccius*, in the southern Tyrrhenian Sea. *Scientia Marina*. 76: 677-690.
38. **Badalamenti F.**, Alagna A., D'anna G., Terlizzi A. & Di Carlo G., 2011 - The impact of dredge-fill on *Posidonia oceanica* seagrass meadows: Regression and patterns of recovery. *Marine Pollution Bulletin*. 62: 483-489.
39. Bonaviri C., Vega Fernández T., Fanelli G., **Badalamenti F.** & Gianguzza P. 2011 – Leading role of the sea urchin *Arbacia lixula* in maintaining the barren state in south-western Mediterranean. *Marine Biology*. 158:2505-2513.
40. D'anna G., Giacalone V. M., Pipitone C. & **Badalamenti F.**, 2011 - Movement pattern of white seabream, *Diplodus sargus* (L., 1758) (Osteichthyes, Sparidae) acoustically tracked in an artificial reef area. *Italian Journal of Zoology*. 78: 255-263.
41. Di Carlo G., Benedetti-Cecchi L. & **Badalamenti F.**, 2011 - Response of *Posidonia oceanica* growth to dredging effects of different magnitude. *Marine Ecology Progress Series*. 423: 39–45.
42. Fanelli E., Cartes J.E., **Badalamenti F.**, D'anna G., Pipitone C., Azzurro E., Rumolo P., & Sprovieri M., 2011 - Meso-scale variability of coastal suprabenthic communities in the southern Tyrrhenian Sea (western Mediterranean). *Estuarine, Coastal and Shelf Science*. 91: 351-360.

43. Fanelli E., **Badalamenti F.**, D'anna G., Pipitone C., Riginella E. & Azzurro E., 2011 - Food partitioning and diet temporal variation by two coexisting sparids, *Pagellus erythrinus* and *Pagellus acarne*, in the Gulf of Castellammare (Mediterranean Sea). *Journal of Fish Biology*. 78: 869–900.
44. Gristina M., Sinopoli M., F. Fiorentino F., Garofalo G. & **Badalamenti F.**, 2011 – Shelter selection of captive European spiny lobster *Palinurus elephas* (Fabricius, 1787) under different levels of *Octopus vulgaris* (Cuvier, 1797) predation threat. *Marine Biology*. 158: 1331-1337.
45. Katsanevakis S., Stelzenmüller V., South A., Kirk Sørensen T., Jones P.J.S., Kerr S., **Badalamenti F.**, Anagnostou C., Breenc P., Chusth G., D'anna G., Duijni M., Filatova T., Fiorentino F., Hulsman H., Johnson K., Karageorgis A.P., Krönckek I., Mirto S., Pipitone C., Portelli S., Qiue W., Reissk H., Sakellariou D., Salomidi M., Van Hoofm L., Vassilopoulou V., Vega Fernández T., Vöge S., Weber A., Zenetos A. & Ter Hofstedem R., 2011 - Ecosystem-based marine spatial management: Review of concepts, policies, tools, and critical issues. *Ocean and Coastal Management*. 54:807-820.
46. Milazzo M., Palmeri A., Falcón J.M., **Badalamenti F.**, García-Charton J.A., Sinopoli M., Chemello R. & Brito A., 2011 – Vertical distribution of two sympatric labrid species in the western Mediterranean and Eastern Atlantic rocky subtidal: local shore topography does matter. *Marine Ecology an Evolutionary Perspective*. 32: 521–531.
47. Sinopoli M., **Badalamenti F.**, D'anna G., Gristina M. & Andaloro F., 2011 - Size influences the spatial distribution and fish-aggregating device use of five Mediterranean fish species. *Fisheries Management and Ecology*. 18: 456-466.
48. Claudet J., Osenberg C.W., Domenici P., **Badalamenti F.**, Milazzo M., Falcon J.M., Bertocci I., Benedetti-Cecchi L., Garcia-Charton J.A., Goni R., Borg J.A., Forcada A., De Lucia G.A., Perez-Ruzafa A., Afonso P., Brito A., Guala I., Le Direach L., Sanchez-Jerez P., Somerfield P.J. & Planes S., 2010 - Marine reserves: Fish life history and ecological traits matter. *Ecological Applications*. 20: 830-839.
49. Fanelli E., **Badalamenti F.**, D'anna G., Pipitone C. & Romano C., 2010 - Trophodynamic effects of trawling on the feeding ecology of pandora, *Pagellus erythrinus*, off the northern Sicily coast (Mediterranean Sea). *Marine and Freshwater Research*. 61: 408-417.
50. Giacalone V.M., D'anna G., **Badalamenti F.** & Pipitone C., 2010 - Weight-length relationships and condition factor trends for thirty-eight fish species in trawled and untrawled areas off the coast of northern Sicily (central Mediterranean Sea). *Journal of Applied Ichthyology*. 26: 954-957.
51. Gianguzza P., Bonaviri C., Milisenda G., Barcellona A., Agnetta D., Fernandez T.V. & **Badalamenti F.**, 2010 - Macroalgal assemblage type affects predation pressure on sea urchins by altering adhesion strength. *Marine Environmental Research*. 70: 82-86.
52. Bonaviri C., Vega Fernandez T., **Badalamenti F.**, Gianguzza P., Di Lorenzo M. & Riggio S., 2009 - Fish versus starfish predation in controlling sea urchin populations in Mediterranean rocky shores. *Marine Ecology Progress Series*. 382:129-138.

53. Fanelli E., **Badalamenti F.**, D'anna G. & Pipitone C., 2009 - Diet and trophic level of sculdfish *Arnoglossus laterna* in the southern Tyrrhenian Sea (western Mediterranean): contrasting trawled vs. untrawled areas. *Journal Marine Biological Association U.K.* 89: 817-828.
54. Fanelli E., Cartes J.E., **Badalamenti F.**, Rumolo P. & Sprovieri M., 2009 - Trophodynamics of suprabenthic fauna on coastal muddy bottoms of the southern Tyrrhenian Sea (western Mediterranean). *Journal of Sea Research.* 61: 174-187.
55. Gianguzza P., **Badalamenti F.**, Gianguzza F., Bonaviri C. & Riggio S., 2009 - The operational sex ratio of the sea urchin *Paracentrotus lividus* populations: the case of the Mediterranean marine protected area of Ustica Island (Tyrrhenian Sea Italy). *Marine Ecology.* 30: 125-132.
56. Gristina M., Fiorentino F., Garofalo G. & **Badalamenti F.**, 2009 - Shelter preference in captive juveniles of European spiny lobster *Palinurus elephas* (Fabricius, 1787. *Marine Biology.* 156: 2097-2105.
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65. Sarà G., Lo Martire M, Buffa G., Mannino A.M & **Badalamenti F.**, 2007 - The fouling community as an indicator of fish farming impact in Mediterranean. *Aquaculture Research*. 38: 66-75.
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