

## Fabio Badalamenti CV

Fabio Badalamenti is Research Director at the Italian National Council of Research, Institute of Anthropic Impacts and Sustainability in marine environment (IAS). Dr Badalamenti 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.

He has a particularly strong reputation in trophic ecology and the application of fundamental ecological thinking and assessment to the management of marine ecosystems. He was one of the first marine ecologists to point out how marine trophic food webs are more complex and longer than thought before and has written several papers on this subject. He described a mechanism of facilitation that allows predators belonging to distinct taxa to prey an otherwise unattainable prey. Recently he discovered a novel predation strategy among marine invertebrates, kleptopredation, that occurs when a predator eats a prey after the prey has hunted and protocooperation in the stony coral *Astroides calycularis* that is the collective behaviour of small polyps that allows to prey on large jellyfish. He also discovered and described the unusual mechanism of adhesion to rocky substrata for the Mediterranean seagrass *Posidonia oceanica* which occurs via adhesive root hair.

### Main work positions and activities

#### *Activity at the Italian National Research Council (CNR)*

- Since 2010, Research Director at the Italian National Council of Research (CNR), Institute for coastal marine management (IAMC) and from September 2019 at the Institute of Anthropic Impacts and Sustainability in marine environment (IAS).
- 2002-09, senior researcher (2002-08) at CNR
- 1989 2001, researcher at CNR-IAMC
- Since 2017, Member on the oceanographic infrastructure commission of CNR
- 2006 to 2015, Responsible for CNR-IAMC “commessa” for research activities on marine ecology, conservation and fisheries, coordinating approximately 30 researchers per year
- Since 2015, Scientific Attachè for the Joint Research Unit, ERIC-EMBRC-IT

#### *International relationships (CNR)*

- 2019, Responsible for IAS of the MoU for scientific collaboration and exchange of researchers and students with the Edinburgh University, UK
- Since 2012, Responsible for IAS (and IAMC) for the MoU of scientific collaboration and exchange of researchers and students with the Portsmouth University
- 2012-15 CNR responsible for the EU Marie Curie Action, IRSES researcher exchange programme RECOMPRA

### Other activities

- Since 2019, Research fellows at the Portsmouth University, School of Biological Sciences, Portsmouth, UK,
- Since 2018, Research Fellow at the Stazione Zoologica Anton Dohrn, Naples
- Since 2018, Honorary Professor at the University of Edinburgh. Scotland, UK
- 2013-2018, Research fellows at the Heriot 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.
- Since 2011, Editor Assistant of "Marine Ecology"
- 2005-08, Member of the Mediterranean Group of IUCN - WCPA (world commission on protected areas)
- 2002-2008, Coordinator of the Italian group on Marine Protected Areas, within the Italian Society of Marine Biology
- 2002-05, Member of the Collaborative Management Working Group (CMWG) of the Commission on Environmental, Economic and Social Policy (CEESP) of the World Conservation Union (IUCN)
- 2010, International consultant for the development of marine protected areas in Ain Al Ghazala and Bomba Bay (Libya). World Wide Fund for Nature (WWF MedPO)
- 2010, International consultant for the development of "Methodology and issues for convergence of biodiversity planning and ICZM planning. Together for the Mediterranean: Developing an Integrative Methodological Framework for coast, water and biodiversity management". Regional Activity Centre for Priority Action Programme (RAC-PAP), Split, Croatia
- 2008, International consultant for the development of marine and coastal protected areas in the republic of Montenegro. Regional Activity Centre for Specially Protected Areas (RAC/SPA) Tunis, Tunisia.
- 2008, International consultant for the preparation of the "Italian national overview (except the Adriatic coast) on vulnerability and impacts of climate change on marine and coastal biodiversity". Regional Activity Centre for Specially Protected Areas (RAC/SPA) Tunis, Tunisia.
- 2007, Member of the board of assessment for the SPAMI of Portofino (Italy) and Cabo de Gata (Spain). IUCN
- 2006-10, Member of the editorial board of "Marine Ecology"
- 2003, Marine biotope survey consultant for NAUTILUS for the development of marine protected areas in Syria, within the Regional Project for the Development of Marine and Coastal Areas in the Mediterranean Region (MedMPA). Implemented by UNEP-MAP and supported by MEDA-SMAP programme of the EC.
- May 2001-December 2002, International consultant for the preparation of SAP-BIO, a Strategic Action Plan for the Conservation of marine and coastal biodiversity. Regional Activity Centre for Specially Protected Areas (RAC/SPA) Tunis, Tunisia.
- 1995-2005, Member of editorial board of "Biologia Marina Mediterranea", official journal of the Italian Society of Marine Biology Since 1984 Member of the Italian Society of Marine Biology (SIBM).

## **Memberships and Network**

- Since 2019, Cost action The European Aquatic Animal tracking network
- 2016-20, Cost Action MARCONS
- 2009-14 MEDPAN
- 2005, EMPAFISH European Marine Protected Areas as tools for FISHeries management and conservation
- 2000, CIESM working group on "Fishing down the Mediterranean food webs".
- Since 1998, ECOMARE (Ecological effects of protection in Mediterranean Marine Reserves), an EC concerted action aimed at assessing the role and effects of marine reserves in the Mediterranean Sea.
- Since 1995 EARRN (European Artificial Reef Research Network), an EC concerted action group on artificial reefs.
- 2002-2006, Coordinator of the Italian group on Marine Protected Areas, within the Italian Society of Marine Biology
- 2001-02, Member of the team of experts consulted by the Italian Ministry for Agriculture and Forestry Policy for the evaluation of fishery research projects.
- 1998, Member of a ministerial working group studying problems of small-scale fisheries, particularly within marine protected areas.
- Since 1985, Founding member of the Italian Polychaete Group within the SIBM, since 1990 co-organiser of the Census List of Polychaetes of the Italian coasts.
- 1994-96, Member of the Directive Council of the Benthos Committee of the Italian Society of Marine Biology.
- Since 1984, member of the Italian Society of Marine Biology (SIBM)

## **Teaching and tutoring**

- 2019-2020, contract professor of Statistic for Ecologist at the University of Palermo
- 2000 -2006, contract professor of Ecology at 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.

## **Project responsibility**

### **Responsible and or PI for CNR of the following projects**

- 01/01/2018-31/12/2019 Bilateral Italy-Japan CNR-JSPS, "Habitat choice and settlement of coral larvae of high latitude coral species under ocean acidification" . Budget 16.000,00 €
- 01/10/2017- 30/09/ 2020, LIFE –SEPOSSO Supporting Environmental governance for the POSidonia oceanica Sustainable transplanting Operations. CNR Budget 227.00,00€
- 2017, Project RITMARE - The Italian Research for the Sea Italian Ministry of Education, University and Research. Sviluppo di metodologie integrate per la mappatura di habitat bentonici per una valutazione delle risorse biotiche ed abiotiche. Budget 18.000,00 €

- 31/01/2013- 01/02/2016, PRIN, programmi di ricerca scientifica di rilevante interesse nazionale, Biocostruzioni costiere: struttura, funzione, e gestione. Budget 60.000,00€
- 01/01/2012 -31/12/2015, RECOMPRA (Reef ecology and design of marine protected areas). EU, Marie Curie Action, IRSES (International Research Staff Exchange Scheme). Budget CNR: € 64.365,00 .
- 2011-13, Project RITMARE - The Italian Research for the Sea Italian Ministry of Education, University and Research. SP2\_WP1\_AZ2 Reti trofiche. Budget
- 07/12/2011- 31/10/2013, esecuzione di ricerche e studi degli effetti dell'invasione di caulerpe aliene sulle biocenosi costiere. SAIPEM Grant Agreement N. 364.174. Budget 284.000,00 €
- 29/06/2011- 31/12/2012, Analisi genetica di popolazioni di Posidonia oceanica. SAIPEM Grant Agreement N. 618456. Budget 75.600€
- 26/07/2010- 31/12/2010, "Attività su posidonie": biologia, ecologia, metodologie ed esperienze di ripristino delle praterie di posidonia oceanica. SAIPEM Grant Agreement N524645. Budget 27.600 ,00€
- 20/04/2010- 12/07/2010, Potenzialità di allevamento di germogli di Posidonia oceanica ai fini di ripopolamento e restauro ambientale: "Studio trattamento Posidonie". SAIPEM Grant Agreement N. 506019. Budget 69.600,00€
- 20/09/2007-05/02/2009, Individuazione di aree di nursery e selezione di microhabitat del sarago maggiore e del sarago fasciato: pianificazione di futuri interventi di ripopolamento ittico. POR Sicilia 2000-2006. Budget 42.440€
- 21/12/2005- 21/10/2007, Gestione di aree significative (aree di nursery) per lo svolgimento del ciclo vitale di specie economicamente importanti. POR: 4.17 Interventi a sostegno della pesca e dell'acquacoltura, interventi di contesto (SFOP). Budget 112.880,00€
- 01/02/2005- 31/01/2007, Valutazione dell'efficacia di aree interdette alla pesca a strascico attraverso lo studio di prede e predatori della triglia di fango, *Mullus barbatus* L.: un approccio con gli isotopi stabili di carbonio e azoto. Italian "Ministero delle Politiche Agricole e Forestali". Budget 211.500,00€.
- 2005-06, Struttura trofica delle comunità di organismi bentopelagic Benthic Boundary Layer (BBL) in due aree del Mediterraneo occidentale. Commin research projects CNR e CSIC .
- 05/08/2004- 04/07/2007, Ricostituzione delle risorse di pesca in un area precedentemente soggetta ad intenso sfruttamento: dinamiche a larga scala del popolamento ittico e della struttura trofica della comunità marina. Italian "Ministero dell'Università e della Ricerca". 435.000,00€
- 11/02/2004- 10/07/2004, Studio degli Spostamenti di individui di aragosta (*Palinurus elephas*; Fabricius, 1787) rilasciati nell'Area Marina Protetta di Isola delle Femmine (Palermo), mediante Telemetria Ultrasonica. Coop.va NAUTILUS Grant Agreement . Budget 12.000,00€
- 28/05/2002- 28/11/2003,: Caratterizzazione della fauna ittica delle isole di Favignana, Levanzo, Marettimo e Ustica attraverso pescate sperimentali con attrezzi da posta. Cluster GebecSud 10. Budget 42.960,00€

- 30/11/2001- 01/12/2004, Studio dell'insediamento spontaneo di Posidonia oceanica nell'approdo costiero del gasdotto italo-algerino a Capo Feto, Mazara del Vallo. with Trans Mediterranean Pipeline Company (TMPC) Grant Agreement. Budget 103.291,38€
- 11/06/2001- 12/12/2003, Uso dell'habitat ed interazioni intra- ed interspecifiche di alcune specie ittiche dell'infralitorale superiore dell'Isola di Ustica. Grant Agreement with the Marine Protected Area of Ustica Island. 10.329,14€
- 01/07/2000- 30/06/2003, Sperimentazione di un sistema di rilevamento telemetrico per lo studio del comportamento di specie ittiche in aree marine protette con barriere artificiali: applicazione del sistema ad una barriera artificiale del Golfo di Castellammare. Italian "Ministero delle Politiche Agricole e Forestali" Budget 92.962,00€
- 30/04/2000- 31/10/2001, Studi degli effetti sulla fauna ittica dell' allevamento di specie ittiche in gabbie off-shore nel Golfo di Castellammare. Grant Agreement with Centro Oceanologico Mediterraneo S.C.p.A. Budget 74.369,79€
- 27/12/1999- 08/02/2000, Effetti dello sfruttamento da pesca sulla catena trofica marina: uno studio con gli isotopi stabili. CNR short term mobility to Newcastle University.
- 01/02/1998- 31/07/2000, Ecological effects of protection in Mediterranean Marine Reserves. ECOMARE, DGXII EU,MAST III, 56.245,77€
- 01/12/1997- 30/11/2000, Iniziativa di restocking del sarago maggiore, *Diplodus sargus*, e tecniche di monitoraggio in un'area protetta con strutture artificiali nel Golfo di Castellammare (Sicilia N/O). Italian "Ministero per le Politiche Agricole e Forestali". Budget 77.469,00€
- 05/08/1997- 06/07/1998, Studio della polichetofauna dell'infralitorale superiore dell'Isola di Ustica: confronto tra i popolamenti di aree a diversa protezione. Grant Agreement with the Marine Protected Area of Ustica. Budget 15.493,71€
- 01/05/1995-30/05/1998, EARRN, European Artificial Reef Research Network EU, DGXIV programme AIR. Budget
- 01/08/1995- 30/07/1998, Studio della situazione ambientale nei pressi dell'approdo italiano del metanodotto italo-algerino a Capo Feto: predisposizione di un piano per la tutela ed il controllo della prateria di Posidonia oceanica nell'area di Capo Feto. Grant Agreement with Trans Mediterranean Pipeline Company. Budget 103.291,38€
- 01/02/1994- 31/07/1995, Evaluation of the direct impact of trawl fishing on the substratum and on benthos in the reproductive areas of *Spicara flexuosa*. EU DGXIV fishery. 40.490,00€
- 01/02/1994- 08/02/1996, Effects of the skid trawl fishing on shallow Posidonia oceanica Meadows and the benthic communities in the Northwestern Sicily. EU DGXIV fishery. 62.904,00 €
- 01/10/1993- 30/09/1996, Sperimentazione di un modulo pilota di maricoltura integrata in un'ipotesi di gestione della fascia costiera nel Golfo di Castellammare: ruolo delle strutture artificiali nella rete trofica e nel reclutamento di forme giovanili per la maricoltura. Italian "Ministero per le Politiche Agricole e Forestali". Budget 154.937,00 €.

- 31/05/1993- 30/04/1995, Structure of the populations and assessment of the biomass of the coastal demersal resources in the Gulf of Castellammare. EU DG XIV. Budget 281.107,00€
- 01/02/1993- 30/03/1993, Cartografia e Check-list delle comunità bentoniche nell'area prospiciente Capo Feto Mazara del Vallo. Grant Agreement with Trans Mediterranean Pipeline Company. 51.645,69€
- 10/06/1991- 09/06/1994, Monitoraggio sulle opere di ripopolamento attivo con barriere artificiali nel Golfo di Castellammare. Grant Agreement with Consorzio per il Ripopolamento Ittico "Golfo di Castellammare. Budget 184.375,00€

### **International Keynote, Invited speaker and chairperson**

- 2018 Edimburgh University, UK
- 2018 University of Tzukuba, Japan
- 2016 Portsmouth University, UK
- 2015 CENPAT Puerto Madrin, Argentina
- 2015, Heriot Watt University, UK
- 2009, Fiera Internazionale dell'ambiente e dello sviluppo sostenibile dei paesi del Mediterraneo. Palermo
- 2005 , Convegno internazionale: Promozione e commercializzazione della pesca del bacino del Mediterraneo, profili giuridici, economici e gestionali . Palermo
- 2000, International conference: Marine exclusion zones in Europe: a facilitated, multidisciplinary conference with research funding in mind, Southampton
- 2007, Chair-persons at the European Symposium on Marine Protected Areas, Theme 1 Ecological effects of MPAs . Murcia, Spagna..

### **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*

#### *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.

## Publications

Author of more than 100 papers on international referenced journals and of several book chapters. At 17/01/2019: Google Scholar: H-index: 33. Total citations: 5100.

Palermo, 06/05/19

Fabio Badalamenti



## Main Published papers

PhD

1986-89, University of Messina (Italy), Doctor of Philosophy in Environmental Science: Marine environment and resources. Title of thesis: Feeding habits of *Lithognathus mormyrus* (Linnaeus, 1758), particularly of juveniles.

1. Di Trapani F., Agnetta D., Bonaviri C., Badalamenti F., Gianguzza P., 2020 - Unveiling the diet of the thermophilic starfish *Ophidiaster ophidianus* (Echinodermata: Asteroidea) combining visual observation and stable isotopes analysis. *Marine Biology*. 167: 93.
2. Katsanevakis S., Poursanidis D., Hoffman R., Rizgalla J., Bat-Sheva Rothman S., LevittBarmats Y., Hadjioannou L., Trkov D., Mikel Garmendia J., Rizzo M., Bartolo A.G., Bariche M., Tomas F., Kleitou P., J. Schembri P., Kletou D., Tiralongo F., Pergent C., Pergent G., Azzurro E., Bilecenoglu M., Lodola A., Ballesteros E., Gerovasileiou V., Verlaque M., OcchipintiAmbrogi A., Kytinou E., Dailianis T., Ferrario J., Crocetta F., Jimenez C., Evans J., Ragkousis M., Lipej L., Borg J.A., Dimitriadis C., Chatzigeorgiou G., Albano P.G., Kalogirou S., Bazairi H., Espinosa F., Ben Souissi J., Tsiamis K., Badalamenti F., et al., 2020 - Unpublished Mediterranean records of marine alien and cryptogenic species. *BioInvasions Records*. 9 (2): 165–182.
3. Pipitone C., Zenone A., Badalamenti F., D'Anna G., 2020 - First record of the blue crab *Callinectes sapidus* (Crustacea, Decapoda, Portunidae), a non-indigenous species in the central/southern Tyrrhenian Sea. *Acta Adriatica: International journal of Marine Sciences*. 61:101-105.
4. Rilov G., Frascchetti S., Gissi E., Pipitone C., Badalamenti F., Tamburello L., Menini E., Goriup P., D Mazaris A., Garrabou J., Benedetti-Cecchi L., Danovaro R., Loiseau C., Claudet J., Katsanevakis S., 2019 - A fast-moving target: achieving marine

- conservation goals under shifting climate and policies. *Ecological Applications*. 30(1), e02009.
5. Savinelli B., Vega Fernández T., Galasso N.M., D'Anna G., Pipitone C., Prada F., Zenone A., Badalamenti F., Musco L., 2020 - Microplastics impair the feeding performance of a Mediterranean habitat-forming coral. *Marine Environmental Research*. 155, 104887.
  6. Zenone A., Alagna A, D'Anna G., Kovalev A., Kreitschitz A., Badalamenti F., Gorb S.N., 2020 - Biological adhesion in seagrasses: The role of substrate roughness in *Posidonia oceanica* (L.) Delile seedling anchorage via adhesive root hairs. *Marine Environmental Research*. 160, 105012.
  7. Zenone A., Ciancio J.E., Badalamenti F., Buffa G., D'Anna G., Pipitone C., Giacalone M.V., 2020 - Influence of light, food and predator presence on the activity pattern of the European spiny lobster *Palinurus elephas*: An investigation using tri-axial accelerometers. *Ecological Indicators*. 113, 106174.
  8. Alagna A., Zenone A., Badalamenti F., 2019 - The perfect microsite: How to maximize *Posidonia oceanica* seedling settlement success for restoration purposes using ecological knowledge. *Marine Environmental Research*. 104846.
  9. Alagna A., D'Anna G., Musco L., Vega Fernández T., Gresta M., Pierozzi N., Badalamenti F., 2019 - Taking advantage of seagrass recovery potential to develop novel and effective meadow rehabilitation methods. *Marine Pollution Bulletin*. 149:
  10. Agnetta D., Badalamenti F., D'Anna G., Sinopoli M., Andaloro F., Vizzini S., Pipitone C., 2019 - Sizing up the role of predators on *Mullus barbatus* populations in Mediterranean trawl and no-trawl areas. *Fisheries Research*. 213: 196-203.
  11. Agnetta D., Badalamenti F., Colloca F., D'Anna G., Di Lorenzo M., Fiorentino F., Garofalo G., Gristina M., Labanchi L., Patti B., Pipitone C., Solidoro C., Libralato S., 2019 - Benthic-pelagic coupling mediates interactions in Mediterranean mixed fisheries: An ecosystem modeling approach. *PloSone*. 14(1): e0210659.
  12. Boscari E., Abbiati M., Badalamenti F., Bavestrello G., Benedetti-Cecchi L., Cannas R., Cau A., Cerrano C., Chimienti G., Costantini F., Frascchetti S., Ingrosso G., Marino I.A.M., Mastrototaro F., Papetti C., Paterno M., Ponti M., Zane L., Congiu L., 2019 - A population genomics insight by 2b-RAD reveals populations' uniqueness along the Italian coastline in *Leptopsammia pruvoti* (Scleractinia, Dendrophylliidae). *Diversity and Distribution*. 1-17. DOI: 10.1111/ddi.12918.
  13. Foglini F., Grande V., Marchese F., Bracchi V.A., Prampolini M., Angeletti L., Giorgio Castellan, Chimienti G., Hansen I.M., Gudmundsen M., Meroni A.N., Mercorella A., Vertino A., Badalamenti F., Corselli C., Erdal I., Martorelli E., Savini A., Taviani M., 2019 - Application of Hyperspectral Imaging to Underwater Habitat Mapping, Southern Adriatic Sea. *Sensors*. 19(10): 2261.
  14. Giacalone V.M., Zenone A., Badalamenti F., Ciancio J., Buffa G., Gristina M, Pipitone C., D'Anna G., 2019 - Homing and home range of the European spiny lobster, *Palinurus elephas* (Decapoda, Palinuridae) acoustically tracked. *Crustaceana*. 92(4): 463-476.
  15. Jahnke M., D'Esposito D., Orrù L., Lamontanara A., Dattolo E., Badalamenti F., Mazzuca S., Procaccini G., Orsini L., 2019 - Adaptive responses along a depth and a



- latitudinal gradient in the endemic seagrass *Posidonia oceanica*. *Heredity*. 122: 233–243 doi: 10.1038/s41437-018-0103-0.
16. Langeneck J., Diez M.E., Nygren A., Salazar-Vallejo S., Carrera-Parra L.F., Vega Fernández T., Badalamenti F., Castelli A., Musco L., 2019 - Worming its way into Patagonia: an integrative approach reveals the cryptic invasion by *Eulalia clavigera* (Annelida: Phyllodocidae). *Marine Biodiversity*. 49: 851–861.
  17. Mazaris A.D., Kallimanis A., Gissi E., Pipitone C., Danovaro R., Claudet J., Rilov G., Badalamenti F., Stelzenmüller V., Thiault L., Benedetti-Cecchi L., Goriup P., Katsanevakis S., Frascchetti S., 2019 - Threats to marine biodiversity in European protected areas. *Science of The Total Environment*. 677: 418-426.
  18. Milazzo M., Alessi C., Quattrocchi F., Chemello R., D'Agostaro R., Gil J., Vaccaro A.M., Mirto S., Gristina M., Badalamenti F., 2019 - Biogenic habitat shifts under long-term ocean acidification show nonlinear community responses and unbalanced functions of associated invertebrates. *Science of The Total Environment*. 677: 41-48.
  19. Prada F., Musco L., Alagna A., Agnetta D., Beccari E., D'Anna G., Giacalone V.M., Pipitone C., Vega Fernández T., Goffredo S., Badalamenti F., 2019 - Anthropogenic impact is negatively related to coral health in Sicily (Mediterranean Sea). *Scientific reports*. 9(1): 1-14.
  20. Vega Fernández T., Badalamenti F., Bonaviri C., Di Trapani F., Gianguzza P., Noè S., Musco L., 2019 - Synergistic reduction of a native key herbivore performance by two non-indigenous invasive algae. *Marine Pollution Bulletin*. 141: 649-654.
  21. Abecasis D., Steckenreuter A., Reubens J., Aarestrup K., Alós J., **Badalamenti F.**, Bajona L., Boylan P., Deneudt K., Greenberg L., Brevé N., Hernández F., Humphries N., Meyer C., Sims D., Thorstad E.V., Walker A.M., Whoriskey F. and Afonso P. 2018 - A review of acoustic telemetry in Europe and the need for a regional aquatic telemetry network. *Animal Biotelemetry*. 6:12. doi.org/10.1186/s40317-018-0156-0
  22. Frascchetti S., Pipitone C., Mazaris A.D., Rilov G., **Badalamenti F.**, Bevilacqua S., Claudet J., Carić H., Dahl K., D'Anna G., Daunys D., Frost M., Gissi E., Göke C., Goriup P., Guarnieri G., Holcer D., Lazar B., Mackelworth P., Manzo S., Martin G., Palialexis A., Panayotova M.D., Petza D., Rumes B., Todorova V., Katsanevakis S., 2018 - Light and Shade in Marine Conservation Across European and Contiguous Seas. *Front. Mar. Sci.*, 5, 420. doi: 10.3389/fmars.2018.00420
  23. Giacalone VM, Pipitone C, **Badalamenti F.**, Sacco F., Zenone A, Ferreri R, Micale V, Basilone G, D'Anna G. 2018 - Home range, movements and daily activity of the white seabream *Diplodus sargus sargus* (L., 1758) during the spawning season. *Cah. Biol. Mar.* 59: 421-429.
  24. Ingresso G., Abbiati M., **Badalamenti F.**, et al., 2018 - Mediterranean Bioconstructions Along the Italian Coast. *Advances in marine biology*. 79: 61-136.
  25. Musco L., Vega Fernández T., Caroselli E., Roberts J. M and **Badalamenti F.**, 2018 - Protooperation among small polyps allows the coral *Astroides calycularis* to prey on large jellyfish. *Ecology*. 99 (10), 2400–2401. DOI: 10.1002/ecy.2413
  26. Noè S., Gianguzza P., Di Trapani F., **Badalamenti F.**, Vizzini S., Vega Fernández T., Bonaviri C., 2018 -Native predators control the population of an invasive crab in no-

- take marine protected areas. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 28:1229–1237. DOI: 10.1002/aqc.2921
27. 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*. 129: 469-473.
  28. 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.
  29. 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. doi:10.1016/j.marpol.2016.01.024
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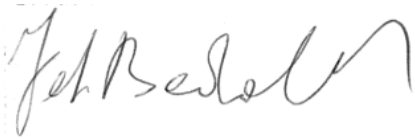


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Palermo, 22/08/2020

Fabio Badalamenti

A handwritten signature in black ink, appearing to read 'Fabio Badalamenti', written in a cursive style.