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Personal data

Born 19/09/1965, Milan
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Current position

Full Professor in Ecology at the Department of Biology, University Federico II, Naples, Italy since December 2018.

Academic qualifications

2014: National Scientific Qualification as **Full Professor in Ecology**
2014: **Associate Professor** in Ecology, at the University of Salento, Lecce
2010: **visiting scientist**, Conservation International (Washington, USA)
2009, 2007, 2006: **visiting scientist**, Hopkins Marine Station, Stanford University
2004: **visiting scientist**, National Center for Ecological Analysis and Synthesis (Santa Barbara, California)
2004: **visiting scientist** at The Netherlands Institute of Ecology, Centre for Estuarine and Marine Ecology (NIOO-KNAW), Yerseke, (The Netherlands)
2004-2011: **Senior lecturer** at the University of Salento, Lecce, Italy
2000-2004: **Lecturer in Zoology** at the University of Salento, Lecce, Italy
1996-1999: **Post-doc fellowship** at the University of Salento, on a Interreg project and MURST project
1994-1995: **Research Grant** at the National Council of Research (CNR), Genoa, Italy

Education

1994 - PhD in Environmental Sciences (Marine Science), University of Genoa
1989 - M.Sc. equivalent in Biological Sciences cum laude, University of Genoa

Affiliations/Memberships

2018-today: Research Fellow of the Zoological Station Anton Dohrn (<http://www.szn.it/index.php/en/personnel/associate-personnel>)
2016-2018: **vice president** of the Academic Board of the Biological and Environmental Science and Technology Degree Course at the University of Salento
2016-today: MC Member in the Cost Action CA15121 in the COST Advancing marine conservation in the European and contiguous seas (MarCons, http://www.cost.eu/COST_Actions/ca/CA15121) and WG responsible in the same action
2015-today: Italian expert for Special Protected Areas of Mediterranean Importance certifications

2013-today: Member of the Table for the Scientific Coordination of the National Inter-University Consortium for Marine Sciences

2011-2016: Administrative Treasurer of the Italian Ecological Society (<http://www.ecologia.it>)

2013-2015: Member of the Jury Margalef Prize invited by the Generalitat de Catalunya Departament de la Presidència, Secretat General (<http://www.gencat.cat/premiramonmargalef/eng/index.htm>)

2008-2010: Consultant for the Brindisi Province (Apulia) in the Technical Committee for Environmental Impact Assessment

2007-2011: Member of the Directive Council of the Italian Association of Oceanography and Limnology (<http://www.aiol.info>)

2006-2009: Member of the European Network of Excellence Marine Biodiversity and Ecosystem Functioning (MARBEF) of the European Union (<http://www.marbef.org>)

2005-2010: Member of the Mediterranean Group of IUCN's World Commission on Protected Areas - Marine (WCPA MMED) (WCPA MMED)

Bibliometric indicators (March 1, 2019)

Google Scholar: 178 scientific publications, H-index 42, Citations 5852

(http://scholar.google.it/citations?hl=en&user=debN35MAAAAJ&view_op=list_works&cstart=60).

Scopus Author ID: 55390176600: 101 scientific publications, H-index 35, Citations 3887

Web of Science: 100 scientific publications, H-index 34, Citations 3483

Research projects (last 8 years)

2019: Algal Forest Restoration In the MEDiterranean Sea (AFRIMED)

EASME/EMFF/2017. **WP leader**

2018-oggi: *Achieving coherent networks of marine protected areas: analysis of the situation in the Mediterranean Sea* (Service request 08/09/2017 under ENV.C.2/FRA/2016/0017). **Task leader**

2016-ongoing: Actions for Marine Protected Areas (AMAre, Interreg MED) (<http://msp-platform.eu/projects/amare-actions-marine-protected-areas>), **Principal Investigator**

2016-ongoing: Marine Ecosystem Restoration in Changing Europeans Seas (MERCES, <http://www.merces-project.eu/>) (Horizon 2020), **WP leader**

2015-ongoing: Marine Strategy Framework Directive, **PI ULR** agreement with ARPAP - CoNISMa

2015-2018: Marine Strategy Framework Directive, **PI WP.2.2 Habitat a Coralligeno for CoNISMa**

2013-2018: Establishment of a European List of Habitats (EU project ENV.B.3/SER/2013/0025), included as **expert** in the field.

2013-2015: ADRI-PLAN: ADRIatic Ionian maritime spatial PLANning (EU project MARE/2012/25) **WP leader**

2012-ongoing: PRIN - Observing, modelling and TEsting synergies and TRade-offs for the adaptive management of multiple Impacts in coastal Systems (TETRIS) (**PI Local RU**),

2013-2014: “PRO.ACT. NATURA 2000 – Protection Actions for Cross-Border and Joint Management of Marine Sites of Community Interest (Natura 2000)” - Interreg Grecia – Italia 2007/2013 (**PI Local RU**)

2013-2014: Tremiti Islands in the SPAMI list (**PI Local RU**)

2011-2015: CoCoNet –EU FP7 Ocean 2011 - 287844 (**WP Leader**) <http://www.coconet-fp7.eu/>

2011-2013: MAREA EU project (Mediterranean Halieutic Resources Evaluation and Advice) specific project N2 (objectives of tenders MARE/2009/05 - LOT 1 - Mediterranean)

(Responsible Task 2.1 Ecosystems knowledge and its integration into fisheries management, <http://mareaproject.net>)

2011-2013: BIOMAP - BIOcostruzioni MARine in Puglia, P.O FESR 2007/2013 - ASSE IV. Linea 4.4 - (Project Conisma funded by the Apulian Region) (**PI Local RU**), <http://www.biomapping.it/index/>

2010-2013: CIESM Tropical Signals Program: tropicalization of the Mediterranean Sea,
2009-2010: Marine caves (Codice Habitat 8330) and *Posidonia oceanica* (Codice Habitat 1120) in the Marine Protected Area of Tremiti Islands: effects of touristic frequentation (Scientific Responsible, funded by the Ministry of the Environment)

2009-2010: Marine caves (CODICE HABITAT 8330) in the Marine Protected Areas of Pelagie, Plemmirio and Capo Caccia (Scientific Responsible, funded by the Ministry of the Environment),
2008-2009: Monitoring Biophysical Indicators (Scientific Responsible, funded by the Ministry of the Environment)

2008-2010: PRIN - The resistance and resilience of coastal biodiversity to synergistic effects of global and local environmental changes (BIORES), (**PI Local RU**)

2007-2010: *Assessing the health of Mediterranean coastal ecosystems*, funded by the PEW Institute for Ocean Conservation Science (<http://oceanconservationscience.org/>), (**PI Italian RU**)

Organization of Congresses/Courses/Workshops

In the last years, she has intensively organized national congresses (e.g. AIOL, CoNISMa), International Workshop (e.g. Mediterranean Conservation Group, Adriplan, COST Action), Steering Committees of european projects (e.g. MERCES, AMAre, CoCoNet). She has also organized several advanced international courses focused on the logic of experimental designs, statistical data analyses, maritime spatial planning:

• International Workshops

2018: WG2 workshop on 'A fast-moving target: the challenge of achieving Good Environmental Status in European Seas under shifting policies and global change, the message from MPAs. Naples, 6-7 Novembre 2018. COST Action MARCONS

2017: WG2 workshop on 'Monitoring multiple human pressures in MPAs to reach GES' Naples, 29-30 November 2017

2015: Adriplan Stakeholder Workshop: Let's make a real Adri Plan: A Marine Spatial Planning exercise in the South Adriatic and North Ionian Sea. 11th March 2015, Lecce

2015: 3rd International Workshop on Advancing Conservation Planning in the Mediterranean Sea, Aprile, Lecce

• Advanced Courses

2013: Marxan Course, National Institute for Marine Research and Development Constanta, Romania (Pacmara)

2010: Meta-analysis in Ecology, SIBA, University of Salento, Lecce, (F. Micheli, C. W. Osenberg, J. Claudet)

2003: Detecting multivariate changes in biological assemblages: experimental design and data analysis at the Department of Biological and Environmental Science and Technologies of the University of Salento (L. Benedetti-Cecchi, K.R Clarke, P.J. Somerfield, M.J. Anderson)

2000: Design and analysis of biological experiments: An Advanced Course, at the Department of Biological and Environmental Science and Technologies of the University of Salento (A.J. Underwood, M.G. Chapman)

2000: Statistical analysis and interpretation of community ecology data using primer, Plymouth Marine Laboratory, Plymouth, UK (Docenti K.R Clarke, R.M Warwick, P.J. Somerfield).

1999: Design and analysis of biological experiments, at the DiSTeBa (A.J. Underwood, M.G. Chapman)

Invited talks (a selection in the last 9 years)

- 2019** *The Economic Benefits of Marine Protected Areas*. Bruxelles, 6 March, Intergroup Seas, Rivers, Islands and Coastal Areas (invited by Mrs Gesine MEISSNER, MEP)
- 2018** *Integrating biodiversity information for protected area planning*. Enhancing EU Policy with Ecosystem Based Approach, The MED Biodiversity Protection Community's Mid Term Event, Bruxelles, 4-5 December (invited by D. Abdul Malak, PANACEA).
- 2018**: *2nd marine Natura 2000 seminar*, 13-15 November (invited by P. Goriup, finanziato EU)
- 2017**: *Integrated ecosystem monitoring & management: Addressing key challenges for the Mediterranean* in Bringing the Science-Practice-Policy Gaps in Mediterranean Biodiversity Protection, Barcellona, 23-24 Ottobre (invited by D. Abdul Malak, PANACEA).
- 2016**: *Marine Spatial Planning in a changing world*. Società Italiana delle Scienze del Clima (SISC), Cagliari, 19-20 Ottobre (invited by Dr G. Coppini, CMCC)
- 2015**. *Beta-diversity, connectivity, and resilience potential in shallow subtidal assemblages*. BIODIVMEX Mistral Prospective Workshop, at the Observatoire de Haute Provence (<http://www.obs-hp.fr/welcome.shtml>), Saint Michel l'Observatoire, 29 September - 2 October (Invited by Prof. W. Cramer)
- 2015**. *Vulnerable habitats, multiple stressors and Maritime Spatial Planning*. In the Panhellenic Symposium of Oceanography & Fisheries, Mytilene, Lesvos Island, May 13th-17th 2015 (www.mytilene.gr) (Invited by Dr. Paraskevi K. Karachle)
- 2015**. "Global change and sustainability" of the Alta Scuola Politecnica (<http://www.asp-poli.it/presentation/index.html>). *The Mediterranean Sea and the challenges for the future*, Responsible of the "Working Group on Ocean Sustainability (Invited by Prof. M. Gatto)
- 2014**: 45° Congresso Società Italiana di Biologia Marina, Venezia 19-22 May, *Interpreting changes in the marine environment: the missing link* (Invited by Prof G. Relini).
- 2014**: La necessità di impostare network di Aree Marine Protette per migliorare la protezione dell'ambiente marino: l'esperienza del progetto EU CoCoNet, within the framework of LTER Italia Rete di Ricerca Ecologica a Lungo Termine – Italia, Torino 12-14 May 2014.
- 2014**. *The Mediterranean Sea and the challenges for the future*, Panel Session, IOC Conference, Barcelona 20-21 November 2014 (Invited by Peter Neill)
- 2014**. *Managing multiple stressors in marine regions: success stories, opportunities for action and gaps of knowledge*. EuroMED Cooperation. Inland and Marine Water Challenges, Naples, 3-4- November 2014 (Invited by E. Brugnoli)
- 2014**. *The importance of control locations* Invited speaker within the project EMBOS, Marine Biodiversity Observation: A system to bring theory and practice together, Indicators of Marine Biodiversity, (Ih Cantabria, Santander, Spain), May 2014 (Invited by H. Hummel)
- 2013**. *Training school Marine Biodiversity Observation: a system to bring theory and practice together* (Ih Cantabria, Santander, Spain) May 2013 (Invited by H. Hummel)
- 2013**. *LABUST/Breaking the Surface* (BTS) conference. Murten, Croazia, October 2013
- 2012**. *Mapping the marine environment: advances, relevance and limitation in ecological research and in marine conservation and management*, 43° Società Italiana di Biologia Marina, Marina di Camerota, 4-8 June 2012 (Invited by Prof. G. Russo)
- 2012**. *Advancing the Conservation Planning in The Mediterranean Sea*, Santorini, 2-5 April (Invited by Prof. Salit Kark, The Hebrew University of Jerusalem)
- 2012**. *Evaluating the sensitivity of Central and South America benthic communities to global climate change*, Ilhabela – Brazil - April 22-26, 2012 (Invited by Prof. Flavio Benchez, University of San Paulo, Brazil)
- 2011**. 2nd International Marine Conservation Congress, 14-18 Maggio, Victoria, BC; Canada. Invited speaker in the symposium Marine Protected Areas: *Effects, networks and monitoring – A multidisciplinary approach* (Invited by J. Claudet)

2010. Global Forum on Ocean, Coast and Islands, Paris UNESCO, 3-7 May, Invited Speaker in the session Preserving Life: *Marine Biodiversity and Networks of Marine Protected Areas*
2010. *Design of marine protected areas in a human-dominated seascape / Habitat classification, spatial planning and conservation of biodiversity*, Annual summer school, San Sebastián (Spain), together with the University of the Basque Country (Invited by Prof. Angel Borja)

Research/Project Evaluator Activity

2018: involved in the Advisory Board of the project Conservation Evidence (University of Cambridge UK - Joint Nature Conservation Committee) for the assessment of the synopsis relative to the effects of conservation actions towards marine habitats (<https://www.conservationevidence.com/>)

2018: expert evaluator for the Åbo Akademi University (<http://www.abo.fi/?lang=en>) in internal recruitment processes

2017-oggi: reviewer in the panel of Joint Baltic Sea Research Programme BONUS (EU funding)

2016-2017: reviewer for the VQR (Evaluation of Italian Research Quality)

2010-oggi: reviewer for MIUR for national projects (PRIN)

2009-oggi: reviewer for international projects (e.g. National Oceanic and Atmospheric Administration (NOAA), Israel Ministry of Science, Technology and Space)

2007-oggi: member of PhD Committee for the Università Politecnico delle Marche, Università di Bari, Università di Palermo, University of Malta

Teaching

2018-today *Fundamental ecology* (6 CFU) at the Graduate Diploma of Biology, University of Naples Federico II

2018-today Marine Ecology (6 CFU) at the Master Diploma of Biology and Ecology and the Marine Environment and Sustainable Use of the resources, University of Naples Federico II

2014-2018: *Coastal Marine Ecology* (4+2 cfu) for the Master Diploma of Estuarine Coastal and Marine Biology (in English), University of Salento

2013-2018: *Biodiversity and Ecosystem functioning* (4+2 cfu) for the Graduate Diploma of Environmental Science and Technology, University of Salento

2000-2012: *Animal Ecology* (4 cfu) (University of Salento)

2001-2009: *Marine Biology* (4 cfu) (University of Salento)

2001-2009: *Conservation and Management of the Marine Environment* (2 cfu) (University of Salento)

2009-2012: *Conservation and Management of the Marine Environment* (1 cfu University of Bologna)

2014-today: Lecturer to graduate students in the PhD course of Biological and Environmental Sciences and Technologies at the University of Salento

2001-2014: Lecturer to graduate students in the PhD course of Fundamental Ecology and Climate Change at the University of Salento

Student supervision: I am currently supervising one RTD a (G. Guarnieri), 3 Post Doc (L. Tamburello, F. De Leo, C. La Marca), 1 PhD student (Loredana Papa), 1 contract (Silvia Fraissinet), 2 graduate students. Previously I have supervised or co-supervised 6 PhD students, and >50 undergraduate and MSc students. I have also offered training in my lab to several visiting students.

Editorial activity

2016-today: Member of the Editorial Board of *Marine Ecology Progress Series*, *Scientific Reports*

2016-today: Associate Editor of *Advances in Oceanography and Limnology*.

Reviewer for 27 ISI journals

Biosketch

I combine field descriptive research, manipulative experiments and spatial analysis techniques for gaining a better understanding of the patterns of distribution of marine biodiversity and of the processes shaping marine communities. The final aim is to incorporate this knowledge in a framework of conservation, management and restoration of marine coastal systems. The direct involvement/coordination in national (PRIN, SPAMI, MSFD) and international projects and working groups (Conservation Group, IUCN, CIESM, UNEP, PERSEUS, CoCoNeT, MEDISEH MAREA, ADRIPLAN) gave me the opportunity to address large-scale issues to individuate effective mitigation strategies and to set conservation priorities.

More specifically, my research activities can be summarized in four lines of research:

1- Patterns of distribution of marine habitats. I started from descriptive analyses across different marine coastal habitats (intertidal, shallow subtidal, bioconstructors) supported by national and international projects to provide evidences of relevant scales of variation in the distribution of both species and assemblages. I showed common patterns of variation in a wide range of natural systems where assemblages are influenced by complex sets of physical and biological processes. The further integration with field, manipulative studies showed that recruitment, the nature and the features of substrate, grazing and nutrient enrichment are key drivers to explain the observed patterns. These results have been critical to understand causes of natural variability and to forecast the consequences of different sources of human impacts.

I have also led large-scale assessments of the distribution of critical habitat such as bioconstructions, macroalgae and seagrasses using GIS techniques, with the idea that fine-scale knowledge on the distribution of species and habitats is crucial for their effective management and conservation. The use of modelling technique allowed the production of the first continuous maps for coralligenous outcrops and maërl beds across the basin providing information about where the two habitats are most likely to occur. The collated occurrence data and derived distribution model outputs can help addressing the challenge of developing basin-wide spatial plans and to guide cost-effective future surveys and monitoring efforts towards areas that are presently poorly-sampled. I'm currently extending these analyses towards other critical habitats such as *Cystoseira* spp. and *Posidonia oceanica*.

My revision activity on habitat classification schemes in the Mediterranean Sea to inform habitat mapping has stimulated the interest of the international marine communities on this topic so that I have been involved in international projects (MEDISEH MAREA, CoCoNet), working groups (University of Saint Paul - Brazil, IUCN) and summer school (Portugal and Spain) to address this issue also in other biogeographical areas.

2- Assessing the effects of human uses for spatial planning. Knowing the distribution and the consequences of human activities on marine ecosystems is also relevant in my research. I started from small-scale studies assessing the effects of single threats by using structured experimental designs and a combination of univariate and multivariate analyses. Results promoted advancements in the quantification of several sources of human impacts on species, assemblages and habitats, together with the development of statistical procedures for the optimization of experimental designs for the identification of the effects of human impacts and the analysis of the potential of recovery of disturbed systems. With a meta-analysis of existing data, I showed that fisheries (destructive or not), species invasions, aquaculture, sedimentation increases, water degradation and urbanization have negative effects on Mediterranean habitats and associated

species assemblages. Finally, I drew attention to the critical lack of empirical knowledge about marine systems in many areas of the Mediterranean, which impedes the implementation of effective conservation measures. This study was the first to synthesize experimental analyses on human-driven impacts on marine habitats across such a broad geographic scale. Recently, I was involved in several large-scale collaborative efforts for the study of the distribution and the effects of multiple threats in the Mediterranean and the Black Seas. These analyses are of critical importance to move beyond the traditional single-threat approach, identifying key threats to different components of biodiversity and allowing site prioritization for different uses. I am presently convinced of the need to develop novel tools and strategies to assess the response of ecosystems to multiple stressors (present and future), to identify specific actions to promote the recovery of disturbed systems, to make better conservation/management decisions, and to prioritize and monitor areas that are highly exposed to human pressures, including the consideration of critically dynamic changes (e.g. hot spots of thermal anomalies, invasions by non indigenous species). In this framework, the project AMAre deals with the critical issue that most MPAs human activities are not spatially managed considering their cumulative effects and the monitoring of the effects of protection and management is not coordinated. The idea with this project is to develop shared methodologies and geospatial tools for multiple stressors assessment, coordinated environmental monitoring, multi-criteria analyses and stakeholders' engagements; and to develop concrete pilot actions and coordinated strategies to solve hot spots of conflicts affecting marine biodiversity and the services it provides.

3- Design, siting, and effectiveness of protection of Marine Protected Areas. A relevant component of my research is devoted to the study of Marine Protected Areas since I am persuaded that they represent a critical tool to limit the effects of several human uses allowing, locally, the recovery of biodiversity and the services it provides. Also in this case, I started from very descriptive studies by using structured experimental designs and the consideration of principles of community ecology to the conservation of marine systems to quantify the effects of protection on different ecosystem components.

The use of site selection algorithms for the identification of priority areas for conservation, especially suited for the design of MPA systems rather than constructing single MPAs represents an important part of my research. I have been the first to apply advanced analyses (e.g. MARXAN) to improve the conservation of the Mediterranean Sea, by using both ecological and socio-economical criteria and minimizing the areas to be included under protection regime.

Recently, I've participated to the identification of Marine Peace Parks within the framework of CIESM (<http://www.ciesm.org/news/ciesm/011210.htm>), I am member of the IUCN and part of a working group to improve the planning of marine conservation in the Mediterranean Sea (<http://medseaclimatechange.wordpress.com/2012/07/10/advancing-marine-conservation-planning-in-the-mediterranean-sea/>). I have been also invited by the Italian Society of Marine Biology for the identification of new sites of community importance and I have been identified among the Italian experts for Special Protected Areas of Mediterranean Importance certifications. As Member of the Table for the Scientific Coordination of the National Inter-University Consortium for Marine Sciences, I am presently involved in the monitoring of bioconstructions within the framework of the Marine Strategy Framework Directive at regional and national scale.

Publications

It follows a list of scientific articles on ISI journals, 9 international scientific books, 6 chapters on Italian books.

1. Gissi E., Fraschetti S., Micheli F. (2019) Incorporating change in marine spatial planning: a review. *Environmental Science and Policy* 92: 191–200 IF 3.82
2. Ingrosso G., Abbiati M., Badalamenti F., Bavestrello G., Belmonte G., Cannas R., Benedetti-Cecchi L., Bertolino M., Bevilacqua S., Bianchi C.N., Bo M., Boscarì E.,

- Cardone F., Cattaneo-Vietti R., Cau A., Cerrano C., Chemello R., Chimienti G., Congiu L., Corriero G., Costantini F., De Leo F., Donnarumma L., Falace A., Fraschetti S., Giangrande A., Gravina M.F., Guarnieri G., Mastrototaro F., Milazzo M., Morri C., Musco L., Pezzolesi L., Piraino S., Prada F., Ponti M., Rindi F., Russo G.F., Sandulli R., Villamor A., Zane L., Boero F. (2018) Mediterranean Bioconstructions along the Italian Coasts. *Advances in Marine Biology*, 79: 61-136.
3. Fraschetti S, Pipitone C, Mazaris AD, Rilov G, Badalamenti F, Bevilacqua S, Claudet J, Carić H, Dahl K, D'Anna G, Daunys D, Frost M, Gissi E, Goke G, Goriup P, Guarnieri G, Holcer D, Lazar B, Mackelworth P, Manzo S, Martin G, Palialexis A, Panayotova M, Petza D, Rumes B, Todorova V, Katsanevakis S (2018). Light and shade in marine conservation across European and Contiguous Seas. *Frontiers in Marine Science*, Vol. 5 IF 2.89
 4. Dailianis, T. et al. (2018) Human activities and resultant pressures on key European marine habitats: An analysis of mapped resources. *Marine Policy* 98: 1–10 IF 2,109
 5. Falace A., Tamburello L., Guarnieri G., Kaleb S., Papa L., Fraschetti S. 2018 Effects of a glyphosate-based herbicide on *Fucus virsoides* (Fucales, Ochrophyta) photosynthetic efficiency. *Environmental Pollution* IF 4.35
 6. Zupan M., Bulleri F., Evans J., Fraschetti S., Guidetti P., Garcia-Rubies A., Sostres M., Asnaghi V., Caro A., Deudero S., Goñi R., Guarnieri G., Guilhaumon F., Kersting D., Kokkali A., Kruschel C., Macic V., Mangialajo L., Mallol S., Macpherson E., Panucci A., Radolovic M., Ramdani M., Schembri P.J., Terlizzi A., Villa E., Claudet J. How good is your marine protected area at curbing threats? 2018 *Biological Conservation* 221: 237-245 IF 4.02
 7. Bevilacqua S., Guarnieri G., Farella G., Terlizzi A., Fraschetti S. (2018) Putting impacts on the map: a regional assessment of the ‘Cumulative Pressure and Impact Assessment’ (CPIA) approach on coralligenous outcrops. *Scientific Reports* IF 4.259
 8. Chimienti G., Stithou M., Mura I.D., Mastrototaro F., Donghia G., Tursi A., Izzi C., Fraschetti S. (2018) An explorative assessment of the importance of mediterranean coralligenous habitat to local economy: The case of recreational diving. *Journal of Environmental Accounting and Management*
 9. Guarnieri G., Fraschetti S., Bogi C., Galil BS (2017). A hazardous place to live: spatial and temporal patterns of species introduction in a hot spot of biological invasions. *Biological Invasions*: 1-14 IF 2.85
 10. Rizzo L, Pusceddu A, Stabili L, Alifano P, Fraschetti S. (2017) Potential effects of an invasive seaweed (*Caulerpa cylindracea*, Sonder) on sedimentary organic matter and microbial metabolic activities *Scientific Reports* 7,1: 12113 IF 5.578
 11. Bertolino M, Cattaneo-Vietti R, Costa G, Pansini M, Fraschetti S., Bavestrello G. (2017) Have climate changes driven the diversity of a Mediterranean coralligenous sponge assemblage on a millennial timescale? *Palaeogeography, Palaeoclimatology, Palaeoecology* 487, 355-363 IF 2.578
 12. Stabili L., Rizzo L., Pizzolante G., Alifano P., Fraschetti S. (2017). Spatial distribution of the culturable bacterial community associated with the invasive alga *Caulerpa cylindracea* in the Mediterranean Sea. *Marine Environmental Research*, 125: 90-98 IF 2.769
 13. Katsanevakis S., Mackelworth P., Coll M., Fraschetti S. and other 31 Authors (2017) Advancing Marine Conservation in European and contiguous Seas with the MarCons Actions Research Ideas and Outcomes, 3: e11884
 14. Stabili L., Fraschetti S., Acquaviva M.R., Cavallo A.R., De Pascali S.A., Fanizzi F.P., Gerardi C., Narracci M., Rizzo L. (2016). The potential exploitation of the Mediterranean invasive alga *Caulerpa cylindracea*: Can the invasion be transformed into a gain? *Marine Drugs*, 14 (11): 210 IF 3.345

15. Giakoumi S., Guilhaumon F., Kark S., Terlizzi A., Claudet J., Felling S., Cerrano C., Coll M., Danovaro R., Fraschetti S., Koutsoubas D., Ledoux J.B., Mazor T., Mériqot B., Micheli F., Katsanevakis S. (2016). Space invaders; biological invasions in marine conservation planning. *Diversity and Distributions*, 22 (12): 1220-1231 IF 4.566
16. Pusceddu A., Fraschetti S., Scopa M., Rizzo L., Danovaro R. (2016). Meiofauna communities, nematode diversity and C degradation rates in seagrass (*Posidonia oceanica* L.) and unvegetated sediments invaded by the algae *Caulerpa cylindracea* (Sonder). *Marine Environmental Research*, 119: 88-99 IF 2.769
17. Rattray A., Andrello M., Asnaghi V., Bevilacqua S., Bulleri F., Cebrian E., Chiantore M., Claudet J., Deudero S., Evans J., Fraschetti S., Guarnieri G., Mangialajo L., Schembri P.J., Terlizzi A., Benedetti-Cecchi L. (2016). Effects of geographic distance, water circulation and environmental conditions in shaping the biodiversity of Mediterranean rocky coasts. *Marine Ecology Progress Series*, 553:1-11 IF 2.62
18. Micheli F., Heiman K.W., Kappel C.V., Martone R.G., Sethi S.A., Osio G.O., Fraschetti S., Shelton A.O., Tanner J.M. (2016). Combined impacts of natural and human disturbances on rocky shore communities. *Ocean and Coastal Management*, 126: 42-50 IF 1.74
19. Melià P., Schiavina M., Rossetto M., Gatto M., Fraschetti S., Casagrandi R. (2016). Looking for hotspots of marine metacommunity connectivity: a methodological framework. *Scientific Reports*: 6 5.578 IF
20. Rivetti I., Boero F., Fraschetti S., Zambianchi E., Lionello P. (2016). Anomalies of the upper water column in the Mediterranean Sea. *Global and Planetary Change* 2.766 IF
21. Fraschetti S., Guarnieri G., Gambi C., Bevilacqua S., Terlizzi A., Danovaro R. (2016). Impact of offshore gas platforms on the structural and functional biodiversity of nematodes. *Marine Environmental Research*, 115: 56-64 2.76 IF
22. Guarnieri G., Bevilacqua S., De Leo F., Farella G., Maffia A., Terlizzi A., Fraschetti S. (2016). The challenge of planning conservation strategies in threatened seascapes: understanding the role of fine scale assessments of community response to cumulative human pressures. *Plos One* 11(2): e0149253. doi:10.1371/journal.pone.0149253 3.234 IF
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