

Giorgio Bavestrello

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CURRICULUM VITAE

Born in Rapallo on 20 August 1958

1986 - Graduated with honors in Biological Sciences, University of Genoa

1990 - PhD in Marine Sciences, University of Genova

1998 - Associate professor in Zoology, Polytechnical University of Marche

2001 - Full Professor in Zoology, Polytechnical University of Marche

2011 - Full Professor in Zoology University of Genova

1-11-2014 to present: Coordinator of the CCS in Natural and Environmental Sciences (L-32; LM-60; LM-75)

1-11-2017 to present: Coordinator of the CCS in Biology (L-13; LM-6)

RESEARCH ACTIVITY

The research topics of Giorgio Bavestrello are:

1. Taxonomy, morphology and ecology of sponges and cnidarians
2. Ecology of deep benthic communities through ROV imaging
3. Mineral/organism interactions
4. Ecology of coral reefs
5. Ecology of Antarctic benthos
6. Conservation of marine ecosystems

MAIN RESEARCH TOPICS

After the bachelor in Biological Sciences obtained in 1982 at the University of Genova and the PhD in Marine Sciences obtained in the same university in 1990, he has dedicated his research activity to the taxonomy, the biology and the ecology of marine benthic organisms of hard bottoms, mainly sponges and cnidarians in the Mediterranean Sea, Indopacific Ocean (particularly Indonesia, Vietnam and Japan) and Antarctica.

Called as associate professor (1998) and full professor of Zoology (2001) at the Polytechnical University of Marche, he has directed the laboratory of Marine Zoology at the Department of Sciences of the Life and of the Environment.

In the taxonomic studies of Sponges and Cnidarians he has described numerous new taxa (species and genera) using both traditional and genetic taxonomic tools. Relevant, at this subject, is the study of the variability of morphological taxonomic characters according to gradients of ecological factors. In some critic groups as stylasterid corals he has applied new method of morphological description as the computerised X-ray microtomography.

Thank to an intense diving activity he has studied, directly in the field, the ecology of hard bottom benthic assemblages. He was among the first that focused the attention on the mass mortalities of sea fans and sponges in the Mediterranean monitoring all the recorded episodes occurring in the Tyrrhenian Sea in the last two decades. Relevant are the studies on the ecology and biology of bioeroding organisms, mainly sponges. Particularly, the morphological study of the scars produced

in the calcareous substrata have demonstrated the specificity of these signs of erosions producing evidence that have paleontological relevance.

He was particularly interested by the mineral/organism interactions regarding both the biomineralisation in skeletal structures and the selection and incorporation of mineral particles of environmental origin. The use of foreign bodies in the sponge skeleton is, until now almost unexplored. The researches of Giorgio Bavestrello have demonstrated the selectivity in the choice and utilisation. Particularly relevant is the finding that a sponge species (*Chondrosia reniformis*) is the only animal able to dissolve crystalline quartz. Also the researches of the author regarding the spicule production provided important findings. The more relevant is the finding that the siliceous sponge spicules act as optical fibres canalising the light inside the sponge tissues. From the ecological point of view the study of the mineral/organism interactions (Biomineralogy) are a source of new evidences clarifying un-explicated aspects of benthos distribution.

Thank to a long collaboration with the Sam Ratulangi University of Manado (North Sulawesi, Indonesia) Giorgio Bavestrello had the possibility to built a small research centre on the small coralline island of Sealaden (Bunaken Marine Park, North Sulawesi, Indonesia). This site was particularly suitable for a series of studies about the ecology of coral reefs. These researches were mainly focused on the role of symbiotic relationships in the production of increasing levels of biodiversity. Particularly relevant was the record of zooxanthellae in black corals, a group traditionally considered not involved in autotrophic symbiosis. Moreover he was the coordinator of the italo-indonesian expedition for the evaluation of the effects of the tsunamis event of December 2004 on coral reefs. During this expedition, that has studied, the lands most close to the earthquake epicentre, was studied a portion of reef uplifted 2 m upon the sea level.

In the last ten years a major part of the research activity of Giorgio Bavestrello was related to the established relationship with a group of researchers of ISPRA allowing the conduction of a long series of ROV campaign all around the Tyrrhenian Sea. Thank to these researchers it was put in evidence the importance of deep coral communities characterised by sea fans and black corals. During these researches the first ROV study of a Mediterranean Seamount.

PARTICIPATION TO NATIONAL AND INTERNATIONAL

RESEARCH PROJECTS:

- PRIN (COFIN) 1999 “Interazioni ecologiche e biochimiche tra biosistemi acquatici e substrati naturali” (Coordinatore scientifico Prof. Cattaneo-Vietti R.)
- PRIN (COFIN) 2003 “Effetti a lungo termine del riscaldamento globale sulla composizione delle comunità bentoniche del Mediterraneo” (Coordinatore scientifico Prof. Bavestrello G.)
- PRIN 2007 (2009-2010) (Italian Ministry for Scientific Research, MIUR) Tyrrhenian Seamounts ecosystems: an Integrated Study (TySEc) (Post-Doc, 120000 euros, G. Bavestrello Coordinator) with contribute of CENSEAM 2009-2010 (5000 euros) for Tyrrhenian Seamounts ecosystems: an Integrated Study (TySEc)
- PRIN 2010-2011 “Biocostruzioni costiere: struttura, funzione, e gestione” (Coordinatore scientifico Prof. Boero F.) (01/02/2013-01/02/2016)
- FIRB 2001 “Biodiversità e organizzazione delle comunità in differenti contesti ambientali” (Coordinatore scientifico Prof. Boero F.)
- INTERLINK 2001-2003 Master in: Conoscenza e gestione della biodiversità delle scogliere coralline indonesiane (Coordinatore scientifico Prof. Bavestrello G.)
- INTERLINK 2004-2006 Master in: Conoscenza e gestione della biodiversità delle barriere

- coralline indonesiane (Coordinatore scientifico Prof. Bavestrello G.)
- Progetto MAE "Grande Rilevanza" tra Italia e Indonesia 2004 "Biodiversità e sue variazioni stagionali nelle scogliere coralline indonesiane" (Responsabile Prof. Bavestrello G.)
- Progetto MAE "Grande Rilevanza" tra Italia e Indonesia 2005 "Biodiversità e sue variazioni stagionali nelle scogliere coralline indonesiane" (Responsabile Prof. Bavestrello G.)
- Progetto MAE "Grande Rilevanza" tra Italia e Indonesia 2006 "Biodiversità e sue variazioni stagionali nelle scogliere coralline indonesiane" (Responsabile Prof. Bavestrello G.)
- SIR BIOMOUNT 2015-2018 (268301 euros). Biodiversity patterns of the Tyrrhenian Seamounts. RBSI14HC90.
- ENPI-EU-ECOSAFIMED 2014-2015 (204680.8 euros). Towards Ecosystem Conservation and Sustainable Artisanal Fisheries in the Mediterranean basin.
- MARINE STRATEGY LIGURIA 2016 (Italian Ministry for Environment and Ligurian Regional Environmental Protection Agency) Monitoraggio ambientale Liguria 40-100m (Participant, 36000 euros, G. Bavestrello Coordinator)
- MARINE STRATEGY LIGURIA 2015 (Italian Ministry for Environment and Ligurian Regional Environmental Protection Agency) Monitoraggio ambientale Liguria 40-100m (Participant, 36000 euros, G. Bavestrello Coordinator)
- LAWIBLUE 2014-2015 Biologic and ecologic characterization of the Puyuhuapi Channel (Late Winter Bloom Experiment), Fjord region, Patagonia, Chile (Participant, Giovanni Daneri Coordinator)
- CORALLO ROSSO E ROV 2012-13 (Italian Ministry of Agriculture and Forestry and Regione Sardegna) Uso del ROV (Remotely Operated Vehicle) nella definizione applicativa di piani di gestione per il corallo rosso Italian Ministry for Agriculture and Fishing (Participant, 120000 euros, G. Bavestrello and A. Cau Coordinators)
- CORALLO ROSSO 2010-2012 (Italian Ministry for Environment) Studio dei banchi di corallo rosso. (Participant, 120000 euros, G. Santangelo Coordinator)
- COCONET 2010 (EU Commission) Towards COast to COast NETworks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potentials. (Participant, 20000 euros, F. Boero Coordinator)
- RITMARE 2012-14 (Italian Ministry for Scientific Research, MIUR) Funzionamento eco sistemico costiero e connessioni con il sistema profondo (Participant, 100000 euros, F. Boero Coordinator)

PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS

Editor for The European Zoological Journal

Editor for PlosONE

PARTICIPATION IN THE BOARD OF TEACHERS OF PHD SCHOOL IN EARTH SCIENCES

1995 to present.

Supervisor / co-supervisor of 7 theses carried out in the Doctorate of Earth Sciences or in the STAT PhD School of UNIGE (1 European PhD; 1 thesis in co-tutelage Italy France).

Supervisor / co-supervisor of 3 theses carried out in the PhDs of Earth Sciences of the Universities of Pavia and Florence.

In particular: Matteo Maino is RTDB at Pavia University; Simona Scrivano (Eu PhD) is post – doc at Genoa University; Giacomo Pepe is post-doc at Genoa University.

Co-supervisor 1 thesis in the Doctorate of Geological Sciences of the Université de Marrakech (Morocco).

2006-2014 Member of the Teaching Committee XXII - XXIX PhD Program in Earth Sciences

2014 to present. Member of the Teaching Committee XXX - XXXII PhD Program in Sciences and Technologies for the Environment and the Territory (STAT)

PRODUCTION

About these topics Giorgio Bavestrello had published more than 350 scientific papers. He has coordinated several projects about sponge and cnidarian biology, some of them in collaboration with international scientific structures (e.g. Sam Ratulangi University Manado, Indonesia; Andalas University Padang, Indonesia; Hai Phong Institute of Oceanography Viet Nam; Kochi University, Japan; Rissho University Tokyo, Japan).

His publications appeared in journals such as Nature, PNAS, Plos One, Marine Ecology Prog Ser. Biological Journal of the Linnean Society, Zoological Journal of the Linnean Society, Ecology Letters, Zoomorphology, etc.

He is Assistant Editor of the Italian Journal of Zoology. He has also reviewed articles for several international journals.

The bibliometric data are: Google Scholar Index-H: 41 (6977 citations).

NATIONAL AND INTERNATIONAL PATENTS

Cattaneo-Vietti, Riccardo, Bavestrello Giorgio, Benatti Umberto et al. "Process and apparatus for submerged biodepuration of effluents disposed of in the sea." U.S. Patent No. 6,821,423. 23 Nov. 2004.

PUBLICATIONS FROM 2010

1. Calcinai B, Bavestrello G., Cuttone G, Cerrano C (2010). Excavating sponges from the Adriatic Sea: description of *Cliona adriatica* sp. nov. (Demospongiae: Clionidae) and estimation of its boring activity. JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, ISSN: 0025-3154, doi: 10.1017/S0025315410001050
2. Cattaneo Vietti R, Albertelli G, Aliani S, Bava S, Bavestrello G., Benedetti Cecchi L, Bianchi Cn, Bozzo E, Capello E, Castellano M, Cerrano, Chiantore Mc, Corradi N, Cocito S, Cutroneo L, Diviacco G, Fabiano M, Faimali M, Ferrari M, Gasparini Gp, Locritani M, Mangialajo L, Marina V, Moreno M, Morri C, Orsi Relini L, Pane L, Paoli C, Petrillo M, Povero P, Pronzato R, Relini G, Santangelo G, Tucci S, L. Tunesi L, M. Vacchi M, Vassallo P, L. Vezzulli L, M.Wurtz M (2010). The Ligurian Sea: present status, problems and perspectives. CHEMISTRY IN ECOLOGY, vol. 26; p. 319-340, ISSN: 0275-7540
3. Di Camillo CG, Bett F.I, Bo M, Martinelli M, Puce S, Bavestrello G. (2010). Contribution to the understanding of seasonal cycle of *Aurelia aurita* (Cnidaria: Scyphozoa) scyphopolyps in the northern Adriatic Sea. JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, vol. 90; p. 1105-1110, ISSN: 0025-3154, doi: 10.1017/S0025315409000848
4. Di Camillo Cg, Bo M, Puce S., Bavestrello G (2010). Association between *Dentitheca habereri* (Cnidaria: Hydrozoa) and two zoanthids. ITALIAN JOURNAL OF ZOOLOGY, 77: 81-91
5. Ehrlich H, Ilan M, Maldonado M, Muricy G, Bavestrello G., Kljajic Z, Carballo JI, Schiaparelli S, Ereskovsky A, Schupp P, Born R, Worch H, Bazhenov Vv, Kurek D, Varlamov V, Vyalikh D, Kummer K, Sivkov Vv, Molodtsov SI, Meissner H, Richter G, Steck E, Richter W, Hunoldt S, Kammer M, Paasch S, Krasokhin V, Patzke G, Brunner E (2010). Three-dimensional chitin-based scaffolds from *Verongida* sponges (Demospongiae: Porifera). Part I. Isolation and identification of chitin. INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 47; p. 132-140, ISSN: 0141-8130

6. Ehrlich H, E Steck, M Ilan, M Maldonado, G Muricy, Bavestrello G., Z Kljajic, J L Carballo, S Schiaparelli, A Ereskovsky, P Schupp, R Born, H Worch, V V Bazhenov, D Kurek, V Varlamov, D Vyalikh, K Kummer, V V Sivkov, S L Molodtsov, H Meissner, G Richter, S Hunoldt, M Kammer, S Paasch, V Krasokhin, G Patzke, E Brunner W Richter (2010). Three-dimensional chitin-based scaffolds from Verongida sponges (Demospongiae: Porifera). Part II: Biomimetic potential and applications. INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 47; p. 141-145, ISSN: 0141-8130
7. Fava F, Bavestrello G., Valisano L, Cerrano C (2010). Survival, growth and regeneration in explants of four temperate gorgonian species in the Mediterranean Sea. THE ITALIAN JOURNAL OF ZOOLOGY, vol. 77; p. 44-52, ISSN: 1125-000.
8. Previati M., Palma M., Bavestrello G., Falugi C., Cerrano C., 2010 Reproductive biology of *Parazoanthus axinellae* (Schmidt, 1862) and *Savalia savaglia* (Bertoloni, 1819) (Cnidaria, Zoantharia) from the NW Mediterranean coast. Marine Ecology 31 (2010) 555–565
9. Puce S, Bo M, Di Camillo Cg, Paoli L, Pica D, Bavestrello G. (2010). Morphology and development of the early growth stages of an Indonesian *Stylaster* (Cnidaria: Hydrozoa). JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, vol. 90; p. 1145-1151, ISSN: 0025-3154, doi: 10.1017/S0025315409991433
10. Salvati E., Angiolillo M., Bo M., Bavestrello G., Giusti M., Cardinali A., Puce S., Spaggiari C., Greco, S., Canese S. 2010. The population of *Errina aspera* (Hydrozoa: Stylasteridae) of the Messina Strait (Mediterranean Sea). Journal of the Marine Biological Association of the United Kingdom, 2010, 90(7), 1331–1336. doi:10.1017/S0025315410000950
11. Angawi RF., G. Bavestrello, B. Calcinai, HA Dien, G. Donnarumma, MA Tufano, I Paoletti, E. Grimaldi, G. Chianese, E. Fattorusso, O. Tagliatalata-Scafati 2011. Aurantoside J: a New Tetramic Acid Glycoside from *Theonella swinhoei*. Insights into the Antifungal Potential of Aurantosides. *Marine Drugs* 9, 2809-2817
12. Bo M, Baker A.C., Gaino E., Wirshing H.W., Scoccia F., Bavestrello G. 2011. First description of algal mutualistic endosymbiosis in a black coral (Anthozoa: Antipatharia). Mar. Ecol. Prog. Ser. 435: 1-11
13. Bo M, Bertolino M, Borghini M, Castellano M, Covazzi Harriague A, et al. (2011) Characteristics of the Mesophotic Megabenthic Assemblages of the Vercelli Seamount (North Tyrrhenian Sea). PLoS ONE 6(2): e16357. doi:10.1371/journal.pone.0016357
14. Di Camillo CG., S. Puce & G. Bavestrello 2011. *Lytocarpia* and *Cladocarpus* (Cnidaria: Hydrozoa, Aglaopheniidae) from the Bunaken National Marine Park (North Sulawesi, Indonesia). Mar Biodiv DOI 10.1007/s12526-011-0081-4
15. M. Bo, C. G. Di Camillo, S. Puce, S. Canese, M. Giusti, M. Angiolillo, & G. Bavestrello 2011 A tubulariid hydroid associated with anthozoan corals in the Mediterranean Sea. Italian Journal of Zoology 78(4): 487–496
16. Martinelli, M., Betti, F., Di Camillo, C., Puce, S. and Bavestrello, G. (2011) 'Patterns of epibiont colonisation on the spider crab *Inachus communissimus* (Decapoda, Inachidae) from the Northern Adriatic Sea (Mediterranean Sea)', Italian Journal of Zoology,, First published on: 07 April 2011 (iFirst)
17. Puce S., Pica D., Mancini L., Brun F., Peverelli A, Bavestrello G., 2011. Three-dimensional analysis of the canal network of an Indonesian *Stylaster* (Cnidaria, Hydrozoa, Stylasteridae) by means of X-ray computed microtomography. Zoomorphology DOI 10.1007/s00435-011-0120-5
18. Angiolillo M., Bo M., Bavestrello G., Giusti M., Salvati E., Canese S. 2012. Record of *Ellisella paraplexauroides* Stiasny, 1936 (Anthozoa: Alcyonacea: Ellisellidae) in Italian waters (Mediterranean Sea). Marine Biodiversity Records, 5: e4.
19. Bavestrello G., Cattaneo-Vietti R., Di Camillo C.G., Bo M. 2012. Helicospiral growth in the whip black coral *Cirripathes* sp. (Antipatharia, Antipathidae). The Biological Bulletin, 222:

17-25.

20. Bertolino M., Calcinai B., Capellacci S., Cerrano C., La Fratta A., Pansini M., Penna A., Bavestrello G., 2012. Posidonia oceanica meadows as sponge spicule traps. *Italian Journal of Zoology* 79: 231-238.
21. Betti F., Bo M., Di Camillo C.G., Bavestrello G. 2012. Life history of *Cornularia cornucopiae* (Anthozoa: Octocorallia) on the Conero Promontory (North Adriatic Sea). *Marine Ecology*, 33: 49–55.
22. Bo M., Bavestrello G., Barucca M., Makapedua D.M., Polisenio A., Canapa A., Olmo E. 2012c. Morphological and molecular characterization of the problematic whip black coral genus *Stichopathes* (Hexacorallia: Antipatharia) from Indonesia (North Sulawesi, Celebes Sea). *Zoological Journal of the Linnaean Society*, 166: 1-13.
23. Bo M., Bavestrello G., Kurek D., Paasch S., Brunner E., Born R., Galli R., Stelling A.L., Sivkov V.N., Petrova O., Vyalikh D., Kummer, K., Molodtsov S.L., Nowak D., Nowak J., Ehrlich H. 2012d. Isolation and identification of chitin in the black coral *Parantipathes larix* (Anthozoa: Cnidaria). *International Journal of Biological Macromolecules*, 51: 129-137.
24. Bo M., Bertolino M., Bavestrello G., Canese S., Giusti M., Angiolillo M., Pansini M., Taviani M. 2012. Role of deep sponge grounds in the Mediterranean Sea: a case study in southern Italy. *Hydrobiologia*, 687: 163–177.
25. Bo M., Canese S., Spaggiari C., Pusceddu A., Bertolino M., Angiolillo M., Giusti M., Loreto M.F., Salvati E., Greco S., Bavestrello G., 2012 Deep Coral Oases in the South Tyrrhenian Sea. *Plos One*, 7: e49870
26. Bo M., Lavorato A., Di Camillo CG., Polisenio A., Baquero A., Bavestrello G., Irei Y., Reimer JD. 2012. Black coral assemblages from Machalilla National Park (Ecuador). *Pacific Science*, 66: 63-81.
27. Calcinai B., Bavestrello G., Bertolino M., Pica D., Wagner D., Cerrano C., 2012. Sponges associated with octocorals in the Indo-Pacific, with the description of four new species. *Zootaxa*, 3617: 1-61.
28. Capellacci C., Cecilia Battocchi, Silvia Casabianca, Marco Giovine, Giorgio Bavestrello, Antonella Penna 2012 Bioavailability of different chemical forms of dissolved silica can affect marine diatom growth *Marine Ecology* doi: 10.1111/j.1439 0485.2012.00529.x
29. Chianese G., E. Fattorusso, F. Scala, R.Teta, B. Calcinai, G. Bavestrello, C.H.A. Dien, M. Kaiser, D. Tasdemir, O.Tagliatela-Scafati, 2012. Manadoperoxides, a new class of potent antitrypanosomal agents of marine origin. *Org. Biomol. Chem.*10, 7197
30. Chianese G., Fattorusso E., Yunovilsa Putra M., Calcinai B., Bavestrello G., Schiano Moriello A., De Petrocellis L., Di Marzo V., Tagliatela-Scafati O., 2012. Leucettamols, Bifunctionalized Marine Sphingoids, Act as Modulators of TRPA1 and TRPM8 Channels. *Maine Drugs* 2012, 10, 2435-2447
31. D. Fassini, L. Parma, I.C. Wilkie, G. Bavestrello, F. Bonasoro , M.D. Candia Carnevali 2012. Ecophysiology of mesohyl creep in the demosponge *Chondrosia reniformis* (Porifera: Chondrosida). *Journal of Experimental Marine Biology and Ecology* 428 (2012) 24–31.
32. D. Pica, M. Bertolino, B. Calcinai, S. Puce, G. Bavestrello 2012 Boring and cryptic sponges in stylasterids (Cnidaria:Hydrozoa). *Italian Journal of zoology*, in press.
33. Di Camillo C.G., Betti F., Bo M., Martinelli M., Puce S., Bavestrello G. 2012b. Population dynamics of *Eudendrium racemosum* (Cnidaria, Hydrozoa) from the North Adriatic Sea. *Marine Biology*, 159:1593-1609.
34. Di Camillo C.G., Coppari M., Bartolucci I., Bo M., Betti F., Bertolino M., Calcinai B., Cerrano C., De Grandis G., Bavestrello G. 2012a. Temporal variations in growth and reproduction of *Tedania anhelans* and *Chondrosia reniformis* in the North Adriatic Sea. *Hydrobiologia*, 687: 299–313.

35. Di Camillo CG, Luna GM, Bo M, Giordano G, Corinaldesi C, Giorgio Bavestrello (2012) Biodiversity of Prokaryotic Communities Associated with the Ectoderm of *Ectopleura crocea* (Cnidaria, Hydrozoa). PLoS ONE 7(6): e39926. doi:10.1371/journal.pone.0039926 DOI 10.1007/s00338-012-0885-0
36. Gaino E., Scoccia F., Makapedua D.M., Pica D., Bavestrello G., Puce S., 2012 Some spermatogenic steps in *Distichopora* sp. (Cnidaria, Hydrozoa, Stylasteridae): ultrastructural aspects. *Zoomorphology*, DOI 10.1007/s00435-012-0182-z
37. Giusti M., Bo M., Bavestrello G., Angiolillo M., Salvati M., Canese S. 2012. Record of *Viminella flagellum* (Alcyonacea: Ellisellidae) in Italian waters (Mediterranean Sea). *Marine Biodiversity Records*, 5: e34.
38. Masteria Yunovilsa Putra , G. Bavestrello , C. Cerrano , B. Renga , C. D'Amore, S. Fiorucci, E. Fattorusso , O. Tagliatela-Scafati 2012. Polyhydroxylated sterols from the Indonesian soft coral *Sinularia* sp. and their effect on farnesoid X-activated receptor. *Steroids*, in press.
39. Masteria Yunovilsa Putra, A. Ianaro, E. Panza, G. Bavestrello, C. Cerrano , E. Fattorusso, O. Tagliatela-Scafati, 2012. Sinulasulfoxide and sinulasulfone, sulfur-containing alkaloids from the Indonesian soft coral *Sinularia* sp. *Tetrahedron Letters* 53 (2012) 3937–3939.
40. Misic C., Bavestrello G., Bo M., Borghini M., Castellano M., Covazzi Harriague A., Massa F., Spotorno F., Povero P. 2012. The “seamount effect” as revealed by organic matter dynamics at a shallow-depth seamount in the Tyrrhenian Sea (Vercelli Seamount, W Mediterranean). *Deep Sea Research I*, 67: 1-11.
41. Puce, S., Pica, D., Brun, F., Mancini, L., & Bavestrello, G. (2012). Genus *Distichopora* (Cnidaria, Hydrozoa): from primary cyclosystem to adult pore organisation. *Coral reefs*, 31(3), 715-730.
42. Di Camillo C.G., Bartolucci I., Cerrano C., Bavestrello G., 2013 Sponge disease in the Adriatic Sea. *Marine Ecology*, 34: 62-71.
43. Capellacci S., Battocchi C., Casabianca S., Giovine M., Bavestrello G., Penna A., 2013. Bioavailability of different chemical forms of dissolved silica can affect marine diatom growth. *Marine Ecology*, 34: 103-111.
44. Bertolino M., Calcinaï B., Cattaneo-Vietti R., Cerrano C., Lafratta A., Pansini M., Pica D., Bavestrello G., 2013. Stability of the sponge assemblage of the Mediterranean coralligenous along a millennial span of time. *Marine Ecology* 1–10 (in press).
45. Bo M., Bava S., Canese S., Angiolillo M., Cattaneo-Vietti R., 2014. Fishing impact on deep Mediterranean rocky habitats as revealed by ROV investigation. *Biological Conservation* 171: 167–176.
46. Bavestrello, Marco Giovine, Riccardo Cattaneo-Vietti, Tomohiko Suzuki, 2013. Complete mitochondrial genomes of the Japanese pink coral (*Corallium elatius*) and the Mediterranean red coral (*Corallium rubrum*): a reevaluation of the phylogeny of the family Coralliidae based on molecular data . *Comparative Biochemistry And Physiology. Part D, Genomics & Proteomics*, 8: 209-219.
47. A. Deidun, F. Andaloro, G. Bavestrello, S. Canese, P. Consoli, A. Micallef, T. Romeo & M. Bo (2014): First characterisation of a *Leiopathes glaberrima* (Cnidaria: Anthozoa: Antipatharia) forest in Maltese exploited fishing grounds, *Italian Journal of Zoology*, DOI: [10.1080/11250003.2014.986544](https://doi.org/10.1080/11250003.2014.986544)
48. Bavestrello G., Marzia Bo, Marco Bertolino, Federico Betti & Riccardo Cattaneo-Vietti (2014) Long-term comparison of structure and dynamics of the red coral metapopulation of the Portofino Promontory (Ligurian Sea): a case-study for a Marine Protected Area in the Mediterranean Sea. *Marine Ecology* 1–10 ISSN 0173-9565
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- Mastascusa V., Cau Al., Sacco F., Canese S. (2015) Distribution and assessment of marine debris in the deep Tyrrhenian Sea (NW Mediterranean Sea, Italy). *Mar. Pollut. Bull.* (2015), <http://dx.doi.org/10.1016/j.marpolbul.2014.12.044>
50. Covazzi Harriague A, Bavestrello G, Bo M, Borghini M, Castellano M, et al. (2014) Linking Environmental Forcing and Trophic Supply to Benthic Communities in the Vercelli Seamount Area (Tyrrhenian Sea). *PLoS ONE* 9(10): e110880. doi:10.1371/journal.pone.0110880
 51. E. Gaino, M. Bo, F. Betti, M. Bertolino, F. Scoccia & G. Bavestrello (2014): Ultrastructural evidence of a fungus-sponge association in the Ligurian Sea: a case study of *Clathrina coriacea* (Porifera: Calcarea), *Italian Journal of Zoology*, DOI: [10.1080/11250003.2014.953219](https://doi.org/10.1080/11250003.2014.953219)
 52. G. Bavestrello, M. Bo, S. Canese, R. Sandulli & R. Cattaneo-Vietti (2014): The red coral populations of the gulfs of Naples and Salerno: human impact and deep mass mortalities, *Italian Journal of Zoology*, DOI: [10.1080/11250003.2014.950349](https://doi.org/10.1080/11250003.2014.950349)
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