

## Fabrizio Bernardi Aubry

Research Scientist



Degree in Biology, 1991, University of Padua

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## Interests

At the Institute of Marine Science, National Research Council (CNR ISMAR Venice) since 1992, as research scientist from 1999, now with permanent position. He has done research work for more than 25 years in biological oceanography of pelagic, coastal and lagoon environments.

Main research interest: phytoplankton ecology (phenology, role in the trophic web) in transitional and marine environments. He particularly took experience in field and laboratory investigations as well as on board of main Italian research vessels (about 30 Scientific Cruises, 14 times as Chief Scientist) in Adriatic Sea. His research activity on phytoplankton ecology has developed in the frame of different projects in the Adriatic Sea and in the lagoon of Venice.

Present research activity: long-term ecological series.

## Activity:

- 2018 - External Supervisor on PhD affiliate to Stazione Zoologica Anton Dohrn (Director of Studies: Raffaella Casotti), Open University, XIX, 2017-2018; project: *Short-term responses of marine bacteria and phytoplankton to disturbance in marine coastal areas by automated high-frequency flow cytometry*. PhD. Alexandre Epinoux.
- 2010 - Mediterranean Geographic Intercalibration Group - Referent for Italy EQB phytoplankton. Intercalibration of classification criteria at the Mediterranean Ecoregion scale MED GIG (Mediterranean Geographic Intercalibration Group).
- 1995-2018 - Research projects, directives or networks in which he participated as phytoplankton expert, responsible for the operational unit, oceanographic data management: Italian Long-Term Ecological research network (LTER-Italy), RITMARE-SOLVE, MARINE STRATEGY 08/56/CE, BALMAS, VECTOR, WFD 2000/60 CE, ICSEL, INTERREG II, III, CBC Phare Italia-Slovenia, CE LIFE-WATERS, PRISMA and others local projects.
- 2017-2018 - Dissemination activities: World Ocean Day, Cammini LTER

## Publications

He wrote about 70 papers between refereed journals (37 of which on ISI) and refereed book chapters. About 600 citations on ISI web of science; H factor: 15.

## Selected papers (2013-2018):

F. Bernardi Aubry, Francesco Acri, Franco Bianchi And Alessandra Pugnetti (2013) Looking for patterns in the phytoplankton community of the Mediterranean microtidal Venice Lagoon: evidence from ten years of observations. **Scientia Marina**, 77 (1): 47-60

D. Berto, F. Rampazzo, S. Noventa, F. Cacciatore, M. Gabellini, F. Bernardi Aubry, A. Girolimetto, R. Boscolo Brusà (2013). Stable carbon and nitrogen isotope ratios as tools to evaluate the nature of particulate organic matter in the Venice lagoon Estuarine, **Coastal and Shelf Science**, 135, 66–76, DOI: 10.1016/j.ecss.2013.06.021

- Pugnetti A., Francesco A., Bernardi Aubry F., Camatti E., Cecere E., Facca C., Franzoi P., Keppel E., Lugliè A., Mistri M., Munari C., Padedda B. M., Petrocelli A., Pranovi F., Pulina S., Satta Cecilia T., Sechi N., Sfriso A., Sigovini M., Tagliapietra D., Torricelli P. (2013) The Italian Long-Term Ecosystem Research (LTER-Italy) network: results, opportunities, and challenges for coastal transitional ecosystems. **Transitional Water Bulletin**, 7 (2013), n. 1, 43-63. ISSN 1825-229X, DOI 10.1285/i1825229Xv7n1p43
- Facca C., Bernardi-Aubry F., Socal G., Ponis E., Acri F., Bianchi F., Giovanardi F., Sfriso A. (2013) Description of a multimetric phytoplankton Index (MPI) for the assessment of transitional waters in **Marine Pollution Bulletin**, vol. 79:145-15479. , pp. 145-154 (ISSN 0025-326X) DOI: 10.1016/j.marpolbul.2013.12.025
- G. Catalano, M. Azzaro, M. Bastianini, L. G. Bellucci, F. Bernardi Aubry, F. Bianchi, M. Burca, C. Cantoni, G. Caruso, R. Casotti, S. Cozzi, P. Del Negro, S. Fonda Umami, M. Giani, S. Giuliani, V. Kovacevic, R. La Ferla, L. Langone, A. Luchetta, L. S. Monticelli, S. Piacentino, A. Pugnetti, M. Ravaioli, G. Socal, F. Spagnoli, And L. Ursella (2014). The carbon budget in the northern Adriatic Sea, a winter case study. **J. Geophys. Res. Biogeosci.**, 119, doi:10.1002/2013JG002559.
- C. Perstrimau, S. Le Faucheur, M. Mortimer, S. Stoll, F. Bernardi Aubry, M. Botter, R. Zonta And V. I. Slaveykova (2015). Stability of titanium dioxide nanoparticle agglomerates in transitional waters and their effects towards plankton from Lagoon of Venice (Italy). **Aquatic Geochemistry**, DOI 10.1007/s10498-014-9245-8.
- T. Djakovac, N. Supic, F. Bernardi Aubry, D. Degobbi, And M.Giani. Dynamics of hypoxia events in the northern Adriatic Sea during the period 1972-2012 (2015). **Journal of Marine Systems**, 141 (2015) 179- 189, doi:10.1016/j.jmarsys.2014.08.001
- G. Corriero, C. Pierri, S. Accoroni, G. Alabiso, G. Bavestrello, E. Barbone, M. Bastianini, A.M. Bazzoni, F. Bernardi Aubry, F. Boero, M.C.Buia, M. Cabrini, E. Camatti, F.Cardone, B. Cataletto, R. Cattaneo Vietti, Ester Cecere, S. Chiapparelli, T. Cibic, A. De Olazabal, G.D'onghia, S. Finotto, N. Fiore, D. Fornasaro, S. Fraschetti, A. Giangrande, C. Gravili, C. Longo, M.Lorenti, A. Lugliè, P.Maiorano, M.G. Mazzocchi, Maria Mercurio, F. Mastrototaro, M. Mistri, M. Monti, C. Munari, C. Nonnis-Marzano, B. M.Padedda, F. P. Patti, Antonella Petrocelli5, Stefano Piraino2, Giuseppe Portacci5, A. Pugnetti, S. Pulina, T.Romagnoli, I. Rosati, D. Sarno, C. T. Satta, N. Sechi, B. Scipione, L. Sion, A. Terlizzi, V. Tirelli, C. Totti, A. Tursi, N. Ungaro, A. Zingone,V. Zupo And A. Basset Ecosystem vulnerability to alien and invasive species: a case study on marine habitats along the Italian coast (2015). **Aquatic Conservation: Marine and Freshwater Ecosystems**, **Aquatic Conserv. Mar. Freshw. Ecosyst.**, DOI: 10.1002/aqc.2550
- Bongiorni L., Fiorentino F., Auriemma R., Aubry Fb., Camatti E., Camin F., Nasi F., Pansera M., Ziller L., Grall J., (2016) Food web of a confined and anthropogenically affected coastal basin (the Mar Piccolo of Taranto) revealed by carbon and nitrogen stable isotopes analyses. **Environ Sci Pollut Res.**, doi: 10.1007/s11356-015-5380-z
- Pizzetti I., Lupini G., Bernardi Aubry F., Acri F., Fuchs B. M, Fazi S., (2016). Influence of the Po River runoff on the bacterioplankton community along trophic and salinity gradients in the northern Adriatic Sea. **Marine Ecology**, DOI: 10.1111/maec.12355.
- Bernardi Aubry, F., Pugnetti, A., Roselli, L., Stanca, E., Acri, F., Finotto, S. Basset, A. (2017) Phytoplankton morphological traits in a nutrient enriched, turbulent Mediterranean microtidal lagoon (Lagoon of Venice, Northern Adriatic Sea). **Journal of Plankton Research**, DOI 10.1093/plankt/fbx008
- Patricija Mozetič , Monica Cangini , Janja Francé , Mauro Bastianini, Fabrizio Bernardi Aubry , Mia Bužančić , Marina Cabrini, Federica Cerino, Marijeta Čalić, Raffaele D'adamo, Dragana Drakulović , Stefania Finotto, Daniela Fornasaro, Federica Grilli, Romina Kraus, Nataša Kužat, Daniela Marić Pfannkuchen, Živana Ninčević Gladan, Marinella Pompei, Ana Rotter, Irene Servadei, Sanda Skejić. (2017) Phytoplankton diversity in Adriatic ports: Lessons from the Port Baseline Survey for the management of harmful algal species. **Marine Pollution Bulletin**, algal species. **Mar. Pollut. Bull.**, <http://dx.doi.org/10.1016/j.marpolbul.2017.12.029>
- Giuseppe Morabito, Maria Grazia Mazzocchi, Nico Salmaso, Adriana Zingone, Caterina Bergami, Giovanna Flaim, Stefano Accoroni, Alberto Basset, Mauro Bastianini, Genuario Belmonte, Fabrizio Bernardi Aubry, Isabella Bertani, Mariano Bresciani, Fabio Buzzi, Marina Cabrini, Elisa Camatti, Carmela Caroppo, Bruno Cataletto, Michela Castellano, Paola Del Negro, Alessandra De Olazabal, Iole Di Capua, Antonia Concetta Elia, Daniela

Fornasaro, Marina Giallain, Federica Grilli, Barbara Leoni, Marina Lipizer, Lorenzo Longobardi, Alessandro Ludovisi, Antonella Lugliè, Marina Manca, Francesca Margiotta, Maria Antonietta Mariani, Mauro Marini, Mara Marzocchi, Ulrike Obertegger, Alessandro Oggioni, Bachisio Mario Padedda, Marco Pansera, Roberta Piscia, Paolo Povero, Silvia Pulina, Tiziana Romagnoli, Ilaria Rosati, Giampaolo Rossetti, Fernando Rubino, Diana Sarno, Cecilia Teodora Satta, Nicola Sechi, Elena Stanca, Valentina Tirelli, Cecilia Totti And Alessandra Pugnetti (2018). Plankton dynamics across the freshwater, transitional and marine research sites of the LTER-Italy Network. Patterns, fluctuations, drivers. **Science of the Total Environment**, 627, 373–387, <https://doi.org/10.1016/j.scitotenv.2018.01.153>

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Minelli A, Oggioni A, Pugnetti A, Sarretta A, Bastianini M, Bergami C, Bernardi Aubry F., Camatti E, Scovacicchi T, Socal G (2018) The project EcoNAOS: vision and practice towards an open approach in the Northern Adriatic Sea ecological observatory. **Research Ideas and Outcomes** 4: e24224. <https://doi.org/10.3897/rio.4.e24224>

Elena Di Poi; Romina Kraus, Ph.D.; Marina Cabrini; Stefania Finotto; Vesna Flander-Putrlje; Mateja Grego; Nataša Kužat; Živana Ninčević Gladan; Laura Pezolesi; Elena Riccardi; Fabrizio Bernardi Aubry; Mauro Bastianini. Dinoflagellate resting cysts from surface sediments of the Adriatic Ports: distribution and potential spreading patterns, **Marine Pollution Bulletin**, submitted

Tommaso Diociaiuti, Fabrizio Bernardi Aubry, Serena Fonda Umani. Vertical Distribution of Microbial Community along Mediterranean Sub-Marine Canyons. Special issue “Ecology and functioning of Mediterranean submarine canyons”, **Progress in Oceanography**. submitted