



# Stefano Goffredo

Ricercatore a tempo determinato tipo b) (senior)

Dipartimento di Scienze Biologiche, Geologiche e Ambientali

Settore scientifico disciplinare: BIO/05 ZOOLOGIA

## Curriculum vitae

### **ABILITAZIONE SCIENTIFICA NAZIONALE**

**SETTORE CONCORSUALE: 05/C1-ECOLOGIA**

**FASCIA: I° e II°**

**VALIDITA': DAL 31/01/2014 AL 31/01/2020**

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Stefano Goffredo PhD

Coral Ecology and Biology & Citizen Science Laboratories

Marine Science Group

Dipartimento di Scienze Biologiche, Geologiche e Ambientali

Alma Mater Studiorum - Università di Bologna

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Residenza: via di mezzo ponente 9/2, Calderara di Reno, 40012 (BO)

Data di nascita: 27 Gennaio 1969

Luogo: Bologna

Servizio civile: 1996-1997

Stato civile: Celibe

### **EDUCAZIONE**

#### Laurea e Dottorato

Anno, Istituto, Dipartimento, Titolo

1995, Alma Mater Studiorum - Università di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale, **Laurea in Scienze Biologiche (cum laude)**

2000, Alma Mater Studiorum - Università di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale, **Dottorato di Ricerca in Biologia Animale**

Titolo della tesi di laurea: Accrescimento di *Ctenactis echinata* (Pallas, 1766) e *Fungia fungites* (Linnaeus, 1758) (Scleractinia, Fungiidae) in una scogliera corallina a Sharm el Sheikh, Mar Rosso, Sud Sinai, Egitto. Supervisore: Prof. Francesco Zaccanti

Titolo della tesi di dottorato: Dinamica di popolazione e biologia riproduttiva del corallo solitario *Balanophyllia europaea* (Anthozoa, Scleractinia) nel Mar Tirreno Settentrionale. Supervisore: Prof. Francesco Zaccanti

## ESPERIENZA ACCADEMICA E DI RICERCA

Anno, Istituto, Attività, Posizione/Titolo

1996, Interuniversity Institute for Marine Science of Eilat (Israel). Ricerca: Ecological distribution and growth of mushroom corals (Fungiidae) on the Israel reef of the Aqaba Gulf (Northern Red Sea). Supervisore: Dr Nanette Elisabeth Chadwick-Furman. Volontario

1997-oggi, Alma Mater Studiorum - Università di Bologna, Dipartimento di Scienze Biologiche, Geologiche e Ambientali. Ricerca: fondazione del gruppo di ricerca Marine Science Group ([www.marinesciencegroup.org](http://www.marinesciencegroup.org)). Ideatore, fondatore, coordinatore

2000-2001, Alma Mater Studiorum - Università di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale. Ricerca: Biology and ecology of Mediterranean corals. Supervisore: Prof. Francesco Zaccanti. Post-Dottorato. Borsa di studio Sub Service s. r. l. - Scuba Schools International Italia

2001-2003, Alma Mater Studiorum - Università di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale. Ricerca: Reproductive biodiversity and demography in tropical and Mediterranean populations of solitary corals (Anthozoa, Scleractinia). Supervisore: Prof. Francesco Zaccanti. Post-dottorato. Borsa di studio MIUR

2003-2004, Alma Mater Studiorum - Università di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale. Ricerca: Monitoring of Mediterranean Sea biodiversity. Supervisore: Prof. Francesco Zaccanti. Post-Dottorato. Borsa di studio Lascito Canziani del Dipartimento di Biologia Evoluzionistica Sperimentale

Luglio 2004 - Settembre 2004, Alma Mater Studiorum - Università di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale. Ricerca: Mediterranean underwater biodiversity monitoring - SCUBA divers for the environment. Supervisore: Prof. Francesco Zaccanti. Contratto di ricerca. Fondi Lascito Canziani del Dipartimento di Biologia Evoluzionistica Sperimentale

Gennaio 2005, Government of the Republic of the Maldives, Tsunami Interministerial Task Force (Male, Maldives). Ricerca: organization and coordination of the first investigation of Maldivian coral reefs after the 2004 Tsunami. Capo Ricercatore. Fondi: Government of the Republic of the Maldives, Association of Italian Tour Operators, Maldives Association of Tourism Industry, Maldives Tourism Promotion Board, Crown Company PVT LTD.

Marzo 2005-Settembre 2005, State University of New York at Buffalo (USA). Ricerca: Molecular ecology and population dynamics of Caribbean and Mediterranean Corals. Supervisor: Prof. Howard R. Lasker. Ricercatore all'estero. Fondi Programma Marco Polo dell'Università di Bologna

2004-2006, Alma Mater Studiorum - Università di Bologna, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Scienze Biologiche. Didattica: Laboratorio di Ecologia. Professore a contratto

2005, 2006, 2007, Oceanographic vessel of the University of Miami R/V *F. G. Walton Smith* (USA). Ricerca: Several research cruises in the Bahamas for a study on coral population dynamics and fishery management. Supervisor: Prof. Howard R. Lasker, State University of New York at Buffalo. Ricercatore ospite. Fondi Prof. Howard R. Lasker: National Science Foundation, New York State SeaGrant Institute, and National Undersea Research Center at the Caribbean Marine Research Center

2008, 2009, Marine Science Station at Aqaba (Jordan). Didattica: Population dynamics of Red and Mediterranean Sea cnidarians. Computer modeling of age-based population dynamics. Professore ospite. National Science Foundation International Programs (International Research Experiences for Students, IRES). US - Jordan Summer Project: "Population dynamics and metabolic interactions between giant sea anemones and symbiotic anemonefish on Red Sea coral reefs". Program Leader and organizer: Nanette Elisabeth Chadwick-Furman, Auburn University, Alabama (USA).

2009-2010, Alma Mater Studiorum - Università' di Bologna, Facoltà' di Scienze Matematiche Fisiche e Naturali, Corso di Laurea Magistrale in Biologia Marina. Didattica: Metodologie di ricerca subacquea. Tecniche di campionamento e immersione. Professore a contratto

2009-2010, Alma Mater Studiorum - Università' di Bologna, Facoltà' di Scienze Matematiche Fisiche e Naturali, Corso di Laurea Magistrale in Biologia Marina. Didattica: Dispersione, connettività', e struttura delle popolazioni marine. Professore a contratto

2009-2010, Alma Mater Studiorum - Università' di Bologna, Facoltà' di Scienze Matematiche Fisiche e Naturali, Corso di Laurea Magistrale in Biologia Marina. Didattica: Evoluzione e adattamenti degli invertebrati marini. Professore a contratto

2009-2010, Alma Mater Studiorum - Università' di Bologna, Facoltà' di Farmacia, Corso di Laurea triennale in Scienze Farmaceutiche Applicate. Didattica: Biologia Animale. Professore a contratto

Novembre 2004 - Novembre 2009, Alma Mater Studiorum - Università' di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale. Ricerca: Reproductive biodiversity in Mediterranean populations of solitary corals of the genus *Balanophyllia* (Cnidaria, Anthozoa, Scleractinia, Dendrophylliidae). Supervisor: Prof. Francesco Zaccanti. Assegno di Ricerca. Fondi: Association of Italian Tour Operators, Government of Arab Republic of Egypt - Ministry of Tourism, University of Bologna

Novembre 2009-Giugno 2010, Alma Mater Studiorum - Università' di Bologna, Dipartimento di Biologia Evoluzionistica Sperimentale. Ricerca: Elaboration of population dynamic models; relationships between environmental parameters and growth in temperate and subtropical corals. Supervisor: Prof. Francesco Zaccanti. Contratto di Ricerca. Fondi: Government of Arab Republic of Egypt - Ministry of Tourism

2006-2010, Alma Mater Studiorum - Università' di Bologna, Facoltà' di Scienze Matematiche Fisiche e Naturali, Corso di Laurea Specialistica in Biodiversità' ed Evoluzione. Didattica: Laboratorio di rilevamento subacqueo: subacquea scientifica. Professore a contratto

2010-2011, Alma Mater Studiorum - Università' di Bologna, Facoltà' di Scienze Matematiche Fisiche e Naturali, Corso di Laurea Specialistica in Biodiversità' ed Evoluzione. Didattica: Laboratorio di rilevamento subacqueo: subacquea scientifica Ricercatore RTD

Giugno 2010-Giugno 2013, Alma Mater Studiorum - Università' di Bologna, Dipartimento di Scienze Biologiche, Geologiche e Ambientali. Ricerca e didattica: Corals and global warming: the Mediterranean versus the Red Sea ([www.coralwarm.eu](http://www.coralwarm.eu)). Ricercatore RTD: **posizione finanziata al 100% dalla Commissione Europea (FP7-IDEAS-European Research Council)**

Giugno 2010-oggi, Alma Mater Studiorum - Università' di Bologna, Dipartimento di Scienze Biologiche, Geologiche e Ambientali. Ricerca e didattica: dottorato in Biodiversità' ed Evoluzione. Membro del collegio dei docenti

2011-oggi, Alma Mater Studiorum - Università' di Bologna, Scuola di Scienze, Corso di Laurea Magistrale in Biodiversità' ed Evoluzione, Didattica: Laboratorio di subacquea scientifica: tecniche d'immersione per il rilevamento biologico. Ricercatore RTD

Agosto 2012, Tel Aviv University, George S. Wise Faculty of Life Science, Israele. Didattica: dottorato in Zoologia. Commissario d'esame finale e valutatore di tesi.

Giugno 2013-oggi, Alma Mater Studiorum - Università' di Bologna, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Ricerca e didattica: Corals and global warming: the Mediterranean versus the Red Sea ([www.coralwarm.eu](http://www.coralwarm.eu)). Ricercatore RTD Senior: posizione finanziata dall'Università' di Bologna, Ministero dell'Istruzione, dell'Università' e della Ricerca

Marzo 2014, University of Reunion Island, Faculty of Sciences and Technologies, Francia. Didattica: dottorato in Biologia Marina. Commissario d'esame finale e valutatore di tesi.

## ESPERIENZA COMPLEMENTARE

Istruttore di Subacquea Scientifica della Accademia Americana delle Scienze Subacquee (American Academy of Underwater Sciences; [www.aaus.org](http://www.aaus.org))

2004-oggi, Bologna, costituzione e presidenza della associazione di promozione sociale "Marine & Freshwater Science Group Association", dedicata al supporto e allo sviluppo della ricerca nei campi della bio-ecologia marina e delle acque interne ([www.msgassociation.org](http://www.msgassociation.org)). L'attività principale della associazione è la raccolta fondi; organizza con cadenza annuale il premio di studio "Mario Pasquini" ([www.premiomariopasquini.org](http://www.premiomariopasquini.org))

2006-oggi, a Bologna, ideatore e direttore della scuola "Scientific Diving School" ([www.SDSeducational.org](http://www.SDSeducational.org))

## CONSULENZA INTERNAZIONALE

Referee per:

- National Oceanic and Atmospheric Administration (NOAA), USA. Sea Grant College Program (Giugno 2007; [www.seagrant.noaa.gov](http://www.seagrant.noaa.gov));
- Zoological Society of London (ZSL), UK. EDGE (Evolutionarily Distinct and Globally Endangered) Fellows Programme (Aprile 2013; [www.zsl.org](http://www.zsl.org); [www.edgeofexistence.org/](http://www.edgeofexistence.org/));
- The National Science Foundation (NSF), USA. Directorate of Geosciences; Division of Ocean Sciences; Biological Oceanography Program (September 2014; <http://www.nsf.gov/>; <http://www.nsf.gov/div/index.jsp?div=oce>);
- European Science Foundation (ESF), France. 2015 AXA Research Fund; Junior Research (Post-Doctoral) Fellowship Scheme (April 2015; <http://www.axa-research.org/post-doctoral-fellowships>).

Referee per le riviste ISI Web of Knowledge: AMBIO (1 manoscritto), American Naturalist (1), Biodiversity and Conservation (1), Biogeosciences (1), Biological Invasions (1), Biology Letters (1); BMC Evolutionary Biology (2), Bulletin of Marine Science (4), Cell & Tissue Research (1), Chinese Journal of Oceanology and Limnology (1), Coral Reefs (12), Hydrobiologia (1), Journal of Natural History (1), Journal of the Marine Biological Association of the United Kingdom (2), Journal of Theoretical Biology (2), Journal of the Royal Society Interface (1), Marine and Freshwater Research (1), Marine Biology (4), Marine Biology Research (1), Marine Ecology Progress Series (4), Marine Ecology-An Evolutionary Perspective (1), Molecular Ecology (1), PLoS ONE (1), Restoration Ecology (1), The Biological Bulletin (2), Tourism Management (2), Zoology (1)

Totale manoscritti revisionati, dal 2005: 52

Assessor for:

- International Union for Conservation of Nature (IUCN), Switzerland. Center for Mediterranean Cooperation. IUCN Red List Assessments of Mediterranean Anthozoans (2014; <http://www.iucn.org/>; [www.iucn.org/mediterranean](http://www.iucn.org/mediterranean))

## PARTECIPAZIONE A COMITATI EDITORIALI DI RIVISTE, COLLANE EDITORIALI, ENCICLOPEDIA E TRATTATI

Trattati:

The Mediterranean Sea: its History and Present Challenges. 2013, Springer, Dordrecht, Netherlands. Editors: Stefano Goffredo, Alma Mater Studiorum - University of Bologna, Italy; Zvy Dubinsky, Bar-Ilan University, Israel. ISBN 978-94-007-6703-4 ( <http://www.springer.com/environment/aquatic+sciences/book/978-94-007-6703-4>).

Riviste:

- Invertebrate Physiology; Speciality Section of Frontiers in Physiology. Frontiers, Lausanne, Switzerland. Associate Editor (dal 2011; <http://journal.frontiersin.org/journal/physiology/section/invertebrate-physiology>);
- PLoS ONE. Public Library of Science, San Francisco, USA. Academic Editor (dal 2014; <http://www.plosone.org/>)
- Coral Reef Research; Speciality Section of Frontiers in Marine Science. Frontiers, Lausanne, Switzerland. Associate Editor (dal 2014; <http://journal.frontiersin.org/journal/marine-science/section/coral-reef-research>);

## PATROCINI E RICONOSCIMENTI

Anno; Ente; Progetto di Ricerca; Ruolo

1999; Ministero dell'Ambiente; Mediterranean *Hippocampus* Mission: a study on the geographical and ecological distribution of seahorses; Ideatore e co-coordinatore

2002; Ministero dell'Ambiente e della Protezione del Territorio; Divers for the Environment: Mediterranean Underwater Biodiversity Project; Ideatore e co-coordinatore

2006; Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Ministry of Tourism of the Arab Republic of Egypt; STE: Scuba Tourism for the Environment. Red Sea Biodiversity Monitoring Program; Ideatore e co-coordinatore

**2009; European Research Council (ERC), IDEAS-FP7, European Commission; CoralWarm. Corals and Global Warming: The Mediterranean versus the Red Sea; Progetto Vincitore Grant ERC, Ideatore e co-coordinatore**

2014; European Space Agency (ESA), Topical Team; SpaceBioMat. Space bioreactor for marine mineralization material research; Progetto Vincitore Grant ESA, Co-ideatore e coordinatore

#### **AFFILIAZIONE AD ASSOCIAZIONI PROFESSIONALI**

International Society for Reef Studies, Society for Conservation Biology, American Academy of Underwater Sciences, Association for the Sciences of Limnology and Oceanography

#### **PARTECIPAZIONE A PROGETTI DI RICERCA**

Anno, Titolo del progetto, Coordinatore, Ente finanziatore, Ruolo nel progetto

1999-2001, "Mediterranean *Hippocampus* Mission: a study on the geographical and ecological distribution of seahorses", Dr. Stefano Goffredo, Prof. Corrado Piccinetti, and Prof. Francesco Zaccanti (University of Bologna), Sub Service S. R. L - Scuba Schools International (Italy), Co-coordinatore

2002, "Genetic variability and reproductive variance: comparison among non-canonical animal system", Prof. Franca Scanabissi, Prof. Barbara Mantovani, and Prof. Francesco Zaccanti (University of Bologna), Italian Ministry of Education, University and Research (ex 40% project), Membro del team

2002-2005, "Divers for the Environment: Mediterranean Underwater Biodiversity Project", Dr Stefano Goffredo, Prof. Corrado Piccinetti, and Prof. Francesco Zaccanti (University of Bologna), Italian Ministry of the Environment, Association of Italian Tour Operators, Scuba Schools International, Scuba Nitrox Safety International, International Diving Educators Association, Quark, Underwater Life Project, Mobby's S. R. L., and Association of Diving Agencies (Italy); Professional Association of Diving Instructors and Project AWARE Foundation (Switzerland), Co-coordinatore

2005, "Tsunami Survey Expedition: Investigation of Maldivian Coral Reefs After the 2004 Sumatra earthquake", Dr Stefano Goffredo (University of Bologna), The Government of the Republic of the Maldives, Maldives Association of Tourism Industry, Maldives Tourism Promotion Board, Crown Company PVT LTD (Maldives), Association of Italian Tour Operators (Italy), Coordinatore

1996-2010, "Morphology, systematic, and ecology of reproduction in Cnidaria, Anellida, and Vertebrata", Prof. Francesco Zaccanti (University of Bologna), Italian Ministry of Education, University and Research (ex 60% project), Membro del team

1996-2010, "Taxonomy, systematic, and phylogeny in cnidarians, crustaceans, insects, and fishes", Prof. Francesco Zaccanti (University of Bologna), Canziani foundation of the Department of Evolutionary and Experimental Biology, Alma Mater Studiorum - University of Bologna (Italy), Membro del team

1996-2010, "Long-term program on biodiversity", Prof. Francesco Zaccanti (University of Bologna), Alma Mater Studiorum University of Bologna (Italy), Membro del team

2004-2009, "Population Dynamics modeling of Giant Sea Anemones in the Northern Red Sea", Prof. Nanette Elisabeth

Chadwick-Furman (Auburn University), International Research Experiences for Students (IRES), National Science Foundation (USA), [Membro del team](#)

2005-2008, "Population ecology of coral reef organisms in the Bahamas, Caribbean and Florida", Prof. Howard Lasker (State University of New York at Buffalo), National Science Foundation, New York State SeaGrant Institute, and National Undersea Research Center at the Caribbean Marine Research Center (USA), [Membro del team](#)

2005-2008, "Population structure of algal and coral genome in the Mediterranean symbiotic system *Balanophyllia europaea*", Prof. Mary Alice Coffroth (State University of New York at Buffalo) and Dr Stefano Goffredo (University of Bologna), Marco Polo program of the University of Bologna, Ministry of Tourism of the Arab Republic of Egypt, Association of Italian Tour Operator, and the Canziani foundation of the Department of Evolutionary and Experimental Biology of University of Bologna (Dr Stefano Goffredo and Prof. Francesco funds); .NOAA's National Undersea Research Program, and the National Science Foundation (Prof. Coffroth funds), [Co-coordinatore](#)

2006-present, "STE: Scuba Tourism for the Environment. Red Sea Biodiversity Monitoring Program", Dr Stefano Goffredo, Prof. Corrado Piccinetti, and Prof. Francesco Zaccanti (University of Bologna), Ministry of Tourism of the Arab Republic of Egypt, Project AWARE Foundation (Switzerland), Association of Italian Tour Operator, Scuba Nitrox Safety International, Settemari, Viaggio nel Blu (Italy), [Co-coordinatore](#)

**2010-2016, "CoralWarm. Corals and Global Warming: The Mediterranean versus the Red Sea", Dr Stefano Goffredo, Prof. Giuseppe Falini, Prof. Zvy Dubinsky, European Research Council (FP7 - IDEAS program), European Commission (European Union), [Ideatore e co-coordinatore](#)**

2013-2014, "Self-fertilization as a mechanism for population maintenance in a changing environment", Dr Gretchen Goodbody-Gringley, Dr Stefano Goffredo, The European Institutes for Advanced Study (EURIAS) Fellowship Programme, FP7, European Commission (European Union ), Lerner Gray Memorial Fund of the American Museum of Natural History, USA, [Co-coordinatore](#)

2013-2015, "The isotopic composition of corals and waters along the Italian coast", Prof. Aldo Shemesh, Dr Stefano Goffredo, Weizmann Institute of Science, Israel. University of Bologna, Italy, [Co-coordinatore](#)

2014-2016, "Topical Team: Space bioreactor for marine mineralization material research (SpaceBioMat)", Prof. Giuseppe Falini, Prof. Zvy Dubinsky, Prof. Jaap Kaandorp, Dr Stefano Goffredo, European Space Agency, [Co-conceiver and coordinator](#)

## **SUPERVISIONE DI STUDENTI**

Tesi supervisionate come correlatore: 33 (di cui 13 triennali e 20 quinquennali/specialistiche/magistrali)

Tesi supervisionate come relatore: 21 (di cui 6 triennali e 15 specialistiche/magistrali)

I curriculum vitae degli studenti sono reperibili al sito: <http://www.marinesciencegroup.org/staff-storico/>

## **SUPERVISIONE DI DOTTORANDI DI RICERCA**

correlatore: 2

Erik Caroselli, Influence of environmental parameters on growth and population dynamics of solitary corals in the Mediterranean Sea. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Biologia Evoluzionistica Sperimentale, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. Relatore: Prof. Francesco Zaccanti. Anno di conseguimento del titolo: 2010.

Michela Reggi, Biomineralization in Mediterranean and tropical corals: the role of intra-skeletal organic matrix. Dottorato in Chimica, Dipartimento di Chimica «Ciamician», Universita' di Bologna. Coordinatore del Dottorato: Prof. Gian Piero Spada. Relatore: Prof. Giuseppe Falini. Anno di conseguimento del titolo: 2015.

I curriculum vitae e le posizioni attuali dei dottorandi sono visibili al sito: <http://www.marinesciencegroup.org/staff/>;

relatore: 6

Francesco Pensa, Monitoring of coral biodiversity in the Red Sea: impact of tourism on marine ecosystems. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. Anno di conseguimento del titolo: 2013.

Valentina Airi, Environment and reproductive strategies in scleractinian corals. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. Anno di conseguimento del titolo: 2014.

Fiorella Prada, Environmental effects on scleractinian coral biodiversity in the Mediterranean Sea. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. Anno di conseguimento del titolo: 2014.

Simone Branchini, Large temporal and spatial scale monitoring of Red Sea coral reef biodiversity. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. Anno di conseguimento del titolo: 2015.

Francesca Gizzi, Effects of climate change on reproduction and growth of temperate Mediterranean corals. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. In corso.

Chiara Marchini, Reproductive biology of the solitary coral *Caryophyllia inornata* (Scleractinia, Caryophylliidae) in relation to environmental parameters. Dottorato in Biodiversita' ed Evoluzione, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Universita' di Bologna. Coordinatore del Dottorato: Prof. Barbara Mantovani. In corso.

I curriculum vitae e le posizioni attuali dei dottorandi sono visibili ai siti: <http://www.marinesciencegroup.org/staff-storico/>

## **SUPERVISIONE DI POST-DOC**

### **Contract period; Name; Project title; Supervisor; Assistant Supervisor**

2010-2012; Erik Caroselli; Influence of environmental parameters on population dynamics of Mediterranean and Red Sea scleractinian corals; Prof. Francesco Zaccanti (Department of Evolutionary and Experimental Biology, University of Bologna); Dr Stefano Goffredo (Department of Evolutionary and Experimental Biology, University of Bologna)

2012-2013; Erik Caroselli; Influence of environmental parameters on population dynamics of Mediterranean and Red Sea scleractinian corals; Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

2013; Erik Caroselli; Effects of ocean warming and acidification in population dynamics of mediterranean marine organisms; Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

2013-2017; Erik Caroselli; Photosynthesis as a compensation mechanism of the negative effects of ocean acidification on calcification of model Anthozoa from the mediterranean Sea; Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

2014-2016; Valentina Airi; Ocean warming and acidification effects on Mediterranean coral reproduction; Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

2014-present; Fiorella Prada; Ecology, biology, and morfometry of *Astroides calycularis*; Dr Fabio Badalamenti (Istituto per l'Ambiente Marino Costiero, Consiglio Nazionale delle Ricerche); Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

2015; Simone Branchini; Monitoring Red Sea coral reef biodiversity; Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

2015; Michela Reggi; Coral biomineralization; Prof. Giuseppe Falini (Department of Chemistry "Ciamician", University of Bologna); Dr Stefano Goffredo (Department of Biological, Geological and Environmental Sciences, University of Bologna)

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## Publicazioni

Coordinamento del progetto: *Corals and global warming: the Mediterranean versus the Red Sea* [FP7, IDEAS, European Research Council (ERC); Grant agreement no.: 249930].

Ruolo editoriale nella rivista «Invertebrate Physiology; Specialty Section of Frontiers in Physiology»

Coordinamento del progetto: *STE: Scuba Tourism for the Environment - Red Sea Biodiversity Monitoring Project* ([www.STEproject.org](http://www.STEproject.org)).

Falini G., Fermani S., Goffredo S. 2015: Coral biomineralization: a focus on intra-skeletal organic matrix and calcification. *Seminars in Cell & Developmental Biology*. In Press. DOI: 10.1016/j.semcdb.2015.09.005 [articolo]

Goodbody-Gringley G., Marchini C., Chequer A.D., Goffredo S. 2015: Population structure of *Montastraea cavernosa* on shallow versus mesophotic reefs in Bermuda. *PLoS ONE*, 10: e0142427 [articolo]

Marchini C., Airi V., Fontana R., Tortorelli G., Rocchi M., Falini G., Levy O., Dubinsky Z., Goffredo S. 2015: Annual reproductive cycle and unusual embryogenesis of a temperate coral in the Mediterranean Sea. *PLoS ONE*, 10: e0141162 [articolo]

Caroselli E., Falini G., Goffredo S., Dubinsky Z., Levy O. 2015: Negative response of photosynthesis to natural and projected high seawater temperatures estimated by pulse amplitude modulation fluorometry in a temperate coral. *Frontiers in Physiology*, 6: 317 [articolo]

Branchini S., Meschini M., Covi C., Piccinetti C., Zaccanti F., Goffredo S. 2015: Participating in a Citizen Science Monitoring Program: Implications for Environmental Education. *PLoS One* [articolo]

Fantazzini P., Mengoli S., Pasquini L., Bortolotti V., Brizi L., Mariani M., Di Giosia M., Fermani S., Capaccioni B., Caroselli E., Prada F., Zaccanti F., Levy O., Dubinsky Z., Kaandorp J. A., Konglerd P., Hammel J. U., Dauphin Y., Cuif J.-P., Weaver J. C., Fabricius K. E., Wagermaier W., Fratzl P., Falini G., Goffredo S. 2015: Gains and losses of coral skeletal porosity changes with ocean acidification acclimation. *Nature Communications*, 6: 7785 [articolo]

Caroselli E., Nanni V., Levy O., Falini G., Dubinsky Z., Goffredo S. 2015: Latitudinal variations in biometry and population density of a Mediterranean solitary coral. *Limnology & Oceanography*, 60: 1356-1370 [articolo]

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