
CURRICULUM VITAE

Surname: Rossi

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Age: 47

Position: Associate Researcher

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Education

B.Sc Biology-Universitat de Barcelona

Doctorate Ecology & Marine Biology-ICM-CSIC/Universitat de Barcelona

Professional profile

I am a research scientist specializing in **marine natural resources and biological oceanography**. My primary focus is in global change indicators of stress in coastal benthic populations, marine invertebrate distribution, ecology and physiology, benthic-pelagic coupling processes and marine wildlife conservation.

During the last nine years I have been a senior researcher at the Environmental Science and Technology Institute (ICTA-Universitat Autònoma de Barcelona, Spain). Prior to that, I was at the Institut de Ciències del Mar (ICM-Consejo Superior de Investigaciones Científicas, Spain) for more than 13 years as a graduate student (*Universitat de Barcelona*), PhD (*Universitat de Barcelona-CSIC*) and post doc.

My present lines of research related with **Marine Biodiversity** and **Global Change** can be synthesized as: 1) Studying the role of **environmental and biological factors** of the water column on the distribution, nutritional condition and survival of benthic organisms to increase the knowledge and tools for coastal management. 2) Studying the **physiology** and **trophic ecology** of benthic organisms in warm-temperate, tropical, polar and upwelling systems (feeding, reproduction, photobiology, physiology, growth, biochemical balance, energy storage and use, stable isotopes, etc.) in front of global change. 3) **Underwater mapping and distribution** of benthic suspension feeders through remote and deep diving techniques (Remotely Operated Vehicle (ROV)), as a tool for the exploration beyond scuba dive limits (30-40 meters), pioneering the study of the mesophotic zone and also in crossing experimental information with seascape methods to understand energy fluxes in the benthos, carbon sink role of the benthic suspension feeders and the anthropogenic impacts on benthic populations. 4) **Conservation research** on marine biodiversity in marine protected areas and population recovery and resilience, centered mainly on octocorals, but also in other species of economic importance. 5) Marine **ecosystem services and environmental education**, studying aspects of natural ecosystem and resource management, including the vision of the animal forest as carbon sinks and source of biodiversity, but also citizen science using tools or ecological economic & anthropological approaches.

I also developed **third-generation biodiesel** (marine microalgae) applied protocols, using all the above mentioned knowledge and my network to make a realistic approach to this energy alternative.

Lastly, but just as important, my job as a **scientific journalist**, reflected in my collaborations with several journals and magazines, demonstrates my strong commitment with scientific outreach (also reflected in eco-thrillers and books for kids). *The Blue Planet: a vanishing universe* (Debate) and *The forgotten continent: visions about Antarctica* (Tusquets) are critical essay books that are a strong examples of my efforts to **communicate science** to a wide audience in a rigorous, but easily comprehensible way. The book *Blue Planet* will be translated to English during this autumn and published by Springer (*Copernicus collection*).

My approach to both **multidisciplinary** and **interdisciplinary** work has been a priority, which is not only reflected in my various projects, but also in the publications listed below.

I have extensive experience in coordinating field work and experimental design, as well as coastal monitoring programs. My leadership is demonstrated not only in the accomplishment of project objectives and publication of manuscripts, but also through the advisement of 9 PhDs and 4 post docs.

Due to my commitment to multidisciplinary science, I have a large **network** (more than 70 senior scientist contacts, see below), with which I have worked with on various projects, congress talks and workshops on differing topics.

I have 100 scientific articles (published, in press or submitted). In more than 75% of these publications I'm the **first, second or last author**. My H factor is 30 and my i10 index is 52. The majority of my published papers (>85%) are from the period of 2006-2016. The number of visits and downloads in Research Gate are around 17000 *reads*. More than 75% of my scientific publications are in the 1st quartile of the specific branch of knowledge.

Professional Experience

<u>Period</u>	<u>Contract or fellowship</u>		<u>Institution</u>
June 1996- Dec 1999	<u>MEC-FPI PhD Fellowship</u> Mar (CSIC)	at	Institut Ciències del
Jan 2000- Oct 2001	<u>PhD contract</u> (UB)	at	Ecology Department
Nov 2001-Feb 2004	<u>Post doc-Research Contract</u> Mar (CSIC)	at	Institut Ciències del
March 2004-Aug 2004	<u>Scientific Manager</u> (Private enterprise)	at	Praesentis, Inc
Sep 2004-March 2005	<u>Scientific Manager</u> (Private enterprise)	at	Argo Maris, inc
April 2005-Nov. 2006	<u>Post doc- Research Contract</u> Ciències del Mar (CSIC)	at	Institut
Dec. 2006-Aug.2007	<u>Post Doc MEC (Spanish) Fellowship</u> Ocean. de Banyuls-sur-Mer, France	at	Obs.
Sep. 2007-April 2008	<u>Post Doc Beatriu de Pinós Contract</u> Tecnologia Ambientals -UAB	at	Institut de Ciència i

- May 2008-June2013 **Ramón & Cajal tenure track contract** at Institut de Ciència i Tecnologia Ambientals -UAB
- July 2013-July 2016 **EU Marie Curie-International Outgoing Fellowship** at Instituto de Ciencias Marinas y Limnología-UNAM / Institut de Ciència i Tecnologia Ambientals –UAB
- August 2016-Dec 2016 **Associate Researcher contract p-Sphere (Marie Curie)** at Institut de Ciència i Tecnologia Ambientals –UAB
- Dec 2016-future **Associate Researcher contract** at DiSTeBA–Università del Salento, Italy

Participation in Scientific Projects

I participated in 30 Research Projects (five in the 6th and 7th framework EU program projects: METRO-MED, EUROGEL, HERMES, CENSOR and MedSeA), 3 Technological projects and 8 Scientific Outreach Projects and Collaborative Projects.

Projects as PI

2001-2003 Monitoring of red coral *Corallium rubrum* populations in the Catalan Coast. Regional Projects with EU funding (PCC: 30103)

2003-2004 Trophic ecology of *Corallium rubrum* (Anthozoa-Octocorallia).Cooperation Project CSIC/CNR 2003T0013

2008-2009 Trophic biomarker analysis in a high productivity zone, the Humboldt current. CTM2008-02002-E

2010-2013 Larval fitness as a key factor in the population dynamics of gorgonians BENTOLARV. CTM2009-10007 (Subprograma MAR) project

2013-2016 Multiple stressor effects in the photobiology of Caribbean symbiotic octocorals and its repercussion in the population fitness and reproductive output. Marie Curie IOF European Project Contract number 327845 FP7-PEOPLE-2012-IOF

2017-2019 Socio-Economic and Ecologic participative Scenarios for an adaptation to Environmental Global Change: the artisanal fisheries of Costa Brava (NW Mediterranean sea.) case study. FEMP project

Selected Projects as partner

2001-2003. Mediterranean gorgonians: risks evaluation of a valuable natural patrimony. MEDGORG, CICYT (REN2000-0633-C03-01/MAR)(PI. Josep-María Gili)

2003-2006. A multidisciplinary approach to the benthic-pelagic coupling processes in the Weddell Sea FILANT (Un proyecto EASIZ) (REN2003-04236) (PI Francesc Pagès)

2003-2007. European gelatinous zooplankton: mechanisms of jellyfish bloom formation and their ecological and socio-economical effects (European Project EUROGEL) (Francesc Pagès, Spanish partner)

2004-2008. CENSOR: Climate variability and El Niño Southern Oscillation: Implications for natural coastal Resources and management. Specific Targeted Research Project (INCO-2002-A2.2) Marzo 2004- Abril 2008. Contrato N° 511071. UE, VI Programa Marco (E. Isla, spanish partner).

2005-2010. HERMES: Hotspot Ecosystem Research on the Margins of European Seas. Contrato N° 511234-2 . Specific Targeted Research Project, Octubre 2004- Septiembre 2008. UE, VI Framework Program (J.M. Gili, spanish partner).

2005-2006. Recruitment, growth and mortality of red coral (*Corallium rubrum* L 1758). CSIC/CNR 2004T0040 PI Josep-María Gili)

2006-2009. Climate change in Antarctica: a benthic-pelagic coupling approach in the Weddell Sea (CLIMANT). POL 2006-06399/CGL, MEC (PI Enrique Isla)

2007-2009. Recruitment induction in the red coral (*Corallium rubrum* L. 1758). Acción Integrada HI2007-0238 (PI Josep-María Gili)

2007-2010. Una aproximación interdisciplinaria al manejo y la conservación marina: experiencias divergentes como base de estrategias globales. Proyecto MAPUCHE, Fundación BBVA, BIOCON 07/104 (PI Covadonga Orejas)

2011-2014. Mediterranean Sea Acidification under changing Climate (MedSea, agreement 265103). (PI Patrizia Ziveri)

2011-2014. Effects of Climate change in Polar Shallow benthic Ecosystems (ECLIPSE, Fundación Total-Fina). (PI Veronica Fuentes)

2016-2019. Seasonal variation of waste as effect of tourism BLUE ISLANDS (INTERREG MED. Ref N° 20161127) (I.P. Alkis Stavridis)

2017-2020. Planktonic calcifying organisms in a high-CO2 Mediterranean Sea (CALMED) (CTM2016-79547-R) (I.P. Patrizia Ziveri)

Awards and accreditations

2008. Accreditation at the Catalan Scientific Quality Agency (AQU) for Associate Professor

2012. Scientific excellence award Ramón y Cajal (Scientific Area 8), I3 accreditation

2017. Abilitazione Ricercatore Fascia II Zoologia, Italy

Experience in Foreign Institutions

I made short (from three weeks to seven months) but very profitable stages in different foreign institutions. Each stage can be identified with one (or more) SCI journal paper(s).

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<u>Period</u>	<u>Institution (city, country)</u>	<u>Position</u>
Sep. 1996	Marine Station of Millport (Isle of Cumbrae, GB)	Visiting PhD
Nov. 1996	Laboratoire Arago (Banyuls, FR)	Visiting PhD
Dec. 1997	University of La Reunion (La Reunion, FR)	Visiting PhD
Sep.-Oct. 1998	Bodega Marine Laboratory (Bodega Bay, US)	Visiting PhD
Sep.-Oct. 1999	Bodega Marine Laboratory (Bodega Bay, US)	Visiting PhD
Sep. 2004	Università di Pisa (Pisa, Italy)	Post Doc

May-June. 2005	Università di Pisa (Pisa, Italy)	Post Doc
Jan.-Feb. 2006	Universidad de Antofagasta (Antofagasta, Chile)	Post Doc
Feb. 2007	Universidad Arturo Prat (Iquique, Chile)	Post Doc
Dec. 2006- July 2007	Laboratoire Arago (Banyuls, FR)	Post Doc
Nov. 2012	Universidad Federal do Ceará (Fortaleza, Brasil)	Visiting-Professor
Jul 2013-Jul 2015	Universidad Nacional Autónoma de México (PM Mex)	Visiting Researcher
Nov. 2015	Universidad Federal do Ceará (Fortaleza, Brasil)	Visiting-Professor
Dec. 2015	Università del Salento (Lecce, Italy)	Visiting professor
June & Sept 2016; May 2017	Monaco Scientific Center (Monaco)	Visiting Researcher
June-July 2017	Universidad Federal do Ceará (Fortaleza, Brasil)	Visiting-Professor

Scientific Cruises and Coastal SCUBA diving campaigns

Oceanographic Cruises

<u>Period</u>	<u>Ship</u>	<u>Cruise</u>	<u>Position</u>
March-May 2000	Polarstern	ANT XVII/3	PhD
Sep.-Oct. 2002	García del Cid	RED CORAL-1	Coordinator
September 2003	Bon Geni	RED CORAL-2	Coordinator
Nov. 2003-Jan. 2004	Polarstern	ANT XXI/2	Invited Sci
Oct.-Nov. 2004	Bon Geni	INTERREG-R	Coordinator
Nov. 2009	Lluerna	RED CORAL-3	Coordinator
Feb.-Apr. 2011	Polarstern	ANT XXVII/3	Coordinator

SCUBA diving work

<u>Period</u>	<u>Area</u>	<u>Project</u>	<u>Position</u>
June 1996-August 2000	Medes Islands (Spain)	PhD Project	PhD
Nov. 2001-Oct. 2003	Catalan Coast (Spain)	RED CORAL	Coordinator
Jan.-Feb. 2006	Antofagasta (Chile) Scientist	CENSOR	Invited
February 2007	Iquique (Chile)	CENSOR	Coordinator

July 2008 and 2009	Cap de Creus (Spain)	MAPUCHE	Coordinator
May 2010-Oct. 2012	Cap de Creus (Spain)	BENTOLARV	Coordinator
Sep. 2013-May 2015	Puerto Morelos (México)	AN FOR HEALTH	Coordinator

I'm familiar with: respiration and photobiology physiological experiments, feeding experiments (in-situ chambers) and diet seasonal monitoring (gut contents), water column analysis (temperature, salinity, currents, irradiance, chlorophyll, organic matter, C/N, lipid-protein-carbohydrate, zooplankton, etc.), sediment trap analysis (gross sedimentation rates, organic matter, lipids, etc.), activity rhythms (flume experiments and in situ data collection-treatment), cnidarian reproduction (seasonal cycles, gonadal output, reproductive effort, larval biology and biochemistry), photo (linear and photogrammetry) and ring octocoral growth, spectrophotometry, fluorometry, gas chromatography (fatty acids and neutral lipids), IRMS-stable isotopes, Remotely Operated Vehicle (driving, image analysis and statistical approach), benthic cartography (GIS approach), benthos monitoring (fish and echinoderm counting, sessile organism cover and health status, etc.), phytoplankton growth optimization for biodiesel yields in outdoor conditions, citizen science and ecosystem service methodologies (free listing, focus groups, economic valuation, etc.).

Results including publications, teaching, scientific outreach etc.

Scientific Publications (by themes)

- **Seston, environmental monitoring and available food**

Rossi S, Grémare A, Gili JM, Amouroux JM, Jordana E, Vétion G (2003) Biochemical characteristics of settling particulate organic matter at two north-western Mediterranean sites: a seasonal comparison. *Estuarine, Coastal and Shelf Science* 58: 423-434

Rossi S, Gili JM (2005) Composition and temporal variation of the near-bottom seston in a Mediterranean coastal area. *Estuarine, Coastal and Shelf Science* 65: 385-395

Isla E, **Rossi S**, Palanques A, Gili JM, Gerdes D, Arntz (2006) Biochemical composition of the sediment from the Eastern Weddell Sea High nutritive value in a high benthic-biomass environment. *Journal of Marine Systems* 60: 255-267

Rossi S, Gili JM (2007) Short-time-scale variability of near bottom seston composition during spring in a warm temperate sea. *Hydrobiologia* 557: 373-388

Gili JM, Orejas C, Isla E, **Rossi S**, Arntz WE (2009) Seasonality on the high Antarctic benthic shelf communities?. In: Antarctic Climate Change and the Environment (J. Turner, P. Convey, G. di Prisco, P. Mayewski, D. Hodgson, E. Fahrbach, B. Bindschadler, eds.). ACCE Report, Cambridge University Press, Cambridge. Pp 276-278

Rossi S, Gili JM (2009) Near bottom phytoplankton and seston: importance in the pelagic-benthic coupling processes. In: Marine Phytoplankton (William T. Kersey and Samuel P. Munger, eds.). ISBN: 978-1-60741-087-4; Nova Science Publishers Inc, New York, pp 45-85

Rossi S, Fiorillo I (2010) Biochemical features of a *Protoceratium reticulatum* red tide in Chipana Bay (Northern Chile) in summer conditions. *Scientia Marina* 74(4): 633-642

Isla E, Gerdes D, **Rossi S**, Fiorillo I, Sañe E, Gili JM, Arntz W. (2011) Biochemical characteristics of surface sediments on the eastern Weddell Sea continental shelf, Antarctica: is there any evidence of seasonal patterns? *Polar Biology* 34:1125-1133

Rossi S, Isla E, Fietz S, Martínez-García A, Sañe E, Teixidó N (2012) Temporal variation of seston biomarkers within the Humboldt Current System off northern Chile (21°S): first simultaneous records on fatty acids, n-alkanes and GDGTs. *Advances in Oceanography and Limnology* 3: 17-40

Rossi S, Isla E, Martínez-García A, Moraleda N, Gili JM, Rosell-Melé A, Arntz W, Gerdes D (2013) Transfer of seston lipids during a flagellate bloom from the surface to the benthic community in the Weddell Sea. *Scientia Marina* 77: 397-407

Soares M, Coelho Campos C, Oliveira Santos NM, Sousa Barroso H, Targino Mota EM, **Rossi S**, Martins Garcia T (submitted) An "invisible problem" in the marine environment: a tropical copepod community dominated by an invasive species. *Scientia Marina*

- **Trophic ecology: diet, capture rates and secondary production**

Gili JM, Alfonso I, Gasol JM, Isla E, López-González P, Orejas C, Pedrós-Alió C, **Rossi S**, Sabater F, Pagès F, Piraino S, Teixidó N, Gerdes D, Arntz WE (2001) Pelagobenthic coupling and the role of benthic suspension feeders. *Ber. Polarforsch. Meeresforsch.* 402: 10-56

Ribes M, Coma R, **Rossi S** (2003) Natural feeding of the temperate asymbiotic octocoral gorgonian *Leptogorgia sarmentosa* (Cnidaria: Octocorallia). *Marine Ecology Progress Series* 254: 141-150

Rossi S, Ribes M, Coma R, Gili JM (2004) Temporal variability in zooplankton prey capture rate of the soft bottom passive suspension feeder *Leptogorgia sarmentosa* (Cnidaria: Octocorallia), a case study. *Marine Biology* 144: 89-99

Tsounis G, **Rossi S**, Laudien J, Bramanti L, Fernández N, Gili JM, Arntz W (2006) Diet and seasonal prey capture rate in the Mediterranean red coral (*Corallium rubrum* L.). *Marine Biology* 149: 313-325

Gili JM, Duró A, García-Valero J, Gasol JM, **Rossi S** (2008) Herbivorism in small carnivores:

benthic hydroids as an example. *Journal of the Marine Biological Association UK* 88: 1541-1546

Rossi S, Gili JM, Garrofé X (2011) Net negative growth detected in a population of *Leptogorgia sarmentosa*: quantifying the biomass loss in a benthic soft bottom-gravel gorgonian. *Marine Biology* 158:1631-1643

Orejas C, **Rossi S**, Peralba A, Reise M, García E, Gili JM (2013) Feeding ecology and trophic impact of the hydroid *Obelia dichotoma* in Kongsfjord (Spitzbergen, Norway). *Polar Biology* 36: 61-72

Rossi S, Coppari M, Viladrich N (2017) Benthic-Pelagic Coupling: New Perspectives in the Animal Forests. In: Marine Animal Forests: the ecology of benthic biodiversity hotspots. Rossi S, Bramanti L, Gori A, Orejas C [EDITORS]. Springer, Germany DOI 10.1007/978-3-319-17001-5_23-1

- **Biomarkers/physiology related to marine ecology**

Rossi S, Snyder MJ (2001) Competition for space among sessile marine invertebrates: changes in HSP70 expression in two Pacific cnidarians. *Biological Bulletin*. 201: 385-393

Sabatés A, **Rossi S**, Reyes E (2003) Lipid content in the early life stages of three mesopelagic fishes. *Journal of Fish Biology* 63: 881-891

Snyder MJ, **Rossi S** (2004) Stress protein (HSP 70 family) expression in intertidal benthic organisms: the example of *Anthopleura elegantissima* (Cnidaria: Anthozoa). *Scientia Marina* 68 (Suppl.1): 155-162

Rossi S, Snyder MJ, Gili JM (2006) Protein-carbohydrate-lipid levels and HSP70-HSP90 (stress protein) expression over an annual cycle of a benthic suspension feeder: useful tools to detect feeding constraints in a benthic suspension feeder. *Helgoland Marine Research* 60: 7-17

Gili JM, **Rossi S**, Pagès F, Orejas C, Teixidó N, López-González PJ, Arntz WE (2006) A new link between the pelagic and benthic systems in the Antarctic shelves. *Marine Ecology Progress Series* 322: 43-49

Rossi S, Gili JM, Coma R, Linares C, Gori A, Vert N (2006) Seasonal cycles of protein, carbohydrate and lipid concentrations in *Paramuricea clavata*: (anthozoa, octocorallia): evidences for summer-autumn feeding constraints. *Marine Biology* 149: 643-651

Rossi S, Sabatés A, Latasa M, Reyes E (2006) Lipid biomarkers and trophic linkages between phytoplankton, zooplankton and anchovy (*Engraulis encrasicolus*) larvae in the NW Mediterranean. *Journal of Plankton Research* 28: 551-562

Rossi S, Tsounis G (2007) Temporal and spatial variation in protein, carbohydrate, and lipid levels in *Corallium rubrum* (anthozoa, octocorallia). *Marine Biology* 152: 429-439

Rossi S, Youngbluth M, Jacoby C, Pagès F, Garrofé X (2008) Fatty acid composition and trophic links among seston, crustacean zooplankton and the siphonophore *Nanomia cara* in Georges Basin and Oceanographer Canyon (NW Atlantic). *Scientia Marina* 72(2): 403-416

Soler-Membrives A, **Rossi S**, Munilla T (2011) Feeding ecology of NW Mediterranean sea spiders (Pycnogonida): temporal variation in fatty acid composition. *Estuarine, Coastal and Shelf Science* 92: 588-597

Gori A, Viladrich N, Gili JM, Kotta M, Cucio C, Magni L, **Rossi S** (2012) Reproductive cycle and trophic ecology in deep versus shallow populations of the Mediterranean gorgonian *Eunicella singularis*. *Coral Reefs* 31: 823-837

Fietz S , Huguet C, Bendle J, Escala M, Herfort L, Ingalls A, Martinez-Garcia A, McClymont E, Peck V, Prahf F, **Rossi S**, Rueda G, Sanson A, Sparrow MA, Zonneveld K, Rosell-Melé A (2012) Co-variation of crenarchaeol and branched GDGTs in globally-distributed marine and freshwater sedimentary archives. *Global Planetary Change* 92-93: 275-285

Elias-Piera F, **Rossi S**, Gili JM, Orejas C (2013) Trophic ecology of seven Antarctic gorgonians. *Marine Ecology Progress Series* 477: 93-106

Gori A, Linares C, Viladrich N, Clavero A, Orejas C, Fiorillo I, Ambroso S, Gili JM, **Rossi S** (2013) The effects of starvation on the gonadal development and biochemical composition of the Mediterranean gorgonian *Paramuricea clavata*. *Journal of Experimental Marine Biology and Ecology* 444: 38-45

Viladrich N, **Rossi S**, López A, Orejas C (2016) Nutritional condition of two coastal rocky fishes and the potential role of a marine protected area. *Marine Ecology, an evolutionary perspective* 37: 46-63

Schubert N, Brown D, **Rossi S** (2017) Symbiotic versus asymbiotic octocorals: physiological and ecological implications. In: *Marine Animal Forests: the ecology of benthic biodiversity hotspots*. Rossi S, Bramanti L, Gori A, Orejas C [EDITORS]. Springer, Germany. DOI 10.1007/978-3-319-17001-5_54-1

Sahade R, Fuentes V, Servetto N, **Rossi S**, Lager C, Alurralde G (submitted) Seasonal trophic ecology and energetic strategies of the Antarctic coral *Malacobelemnion daytoni* (Octocorallia, Pennatulacea, Kophobelemnidae). *Marine Environmental Research*

- **Biodiversity I: Reproduction, resilience and larval ecology**

Bramanti L, **Rossi S**, Tsounis G, Gili JM, Santangelo G (2007) Settlement and early survival of red coral on artificial substrates in different geographic areas: some clues for demography and restoration. *Hydrobiologia* 580: 219-224

Gori A, Linares C, **Rossi S**, Coma R, Gili JM (2007) Spatial variability in reproductive cycles of the gorgonians *Paramuricea clavata* and *Eunicella singularis* in the Western Mediterranean. *Marine Biology* 151: 1571-1584

Ribes M, Coma R, **Rossi S**, Micheli M (2007) The cycle of gonadal development of *Eunicella singularis* (Cnidaria: Octocorallia): trends on sexual reproduction in Mediterranean gorgonians. *Invertebrate Biology* 126: 307-317

Rossi S, Gili JM (2009) Reproductive features and gonadal development cycle of the soft bottom-gravel gorgonian *Leptogorgia sarmentosa* (Esper 1791) in the NW Mediterranean sea. *Invertebrate Reproduction and Development* 53: 175-190

Santangelo G, Bramanti L, **Rossi S**, Tsounis G, Vielmini I, Lott C, Gili JM (2012) Patterns of variation in recruitment and post-recruitment processes of the Mediterranean precious gorgonian coral *Corallium rubrum*. *Journal of Experimental Marine Biology and Ecology* 411:7-13

Fiorillo I, **Rossi S**, Gili JM, Alvà V, López-González PJ (2013) Seasonal cycle of sexual reproduction of the Mediterranean soft coral *Alcyonium acaule* (Anthozoa, Octocorallia). *Marine Biology* 160:719–728

Quintanilla E, Gili JM, López-González PJ, Tsounis G, Madurell T, Fiorillo I, **Rossi S** (2013) Sexual reproductive cycle of the epibiotic soft coral, *Alcyonium coralloides* (Octocorallia, Alcyonacea), growing on the Mediterranean gorgonian *Paramuricea clavata*. *Aquatic Biology* 18: 113-124

Martinez-Quintana A, Bramanti L, Villadrich N, **Rossi S**, Guizien K (2015) Quantification of larval traits driving connectivity: the case of *Corallium rubrum* (L.1758). *Marine Biology* 162: 309-318

Viladrich N, Bramanti L, Tsounis G, Chocarro B, Martínez-Quintana A, Ambroso S, Madurell T, **Rossi S** (2016) Variation in lipid and free fatty acid content during spawning in two temperate octocorals with different reproductive strategies: surface versus internal brooder. *Coral Reefs* 35: 1033-1045

Viladrich N, Bramanti L, Tsounis G, Martínez-Quintana A, Ferrier-Pagés C, Isla E, **Rossi S** (in press) Variation of lipid and free fatty acid contents during larval release in two temperate octocorals according to their trophic strategy. *Marine Ecology Progress Series*

- **Biodiversity II: Cartography, distribution and carbon sink evaluation of benthic suspension feeders**

Rossi S, Gili JM, Hughes RG (2000) The effects of exposure to wave action on the distribution and morphology of the epiphytic hydrozoans *Clava multicornis* and *Dynamena pumila*. *Scientia Marina* 64: 135-140

Gili JM, Palanques P, Isla E, Arntz WE, Clarke A, Orejas C, Teixidó N, **Rossi S**, López-González PJ (2006) A unique assemblage of epibenthic sessile suspension feeders with archaic features in the high-Antarctic. *Deep-sea Research Part II* 53: 1029-1052

Gori A, Olariaga A, Orejas C, **Rossi S**, Quesada S, Valentin A, Bosch I, Turró J, Mestre M, Sanz JL, Teixidó J, Gili JM (2009) Bleeper-EVO: an easy-to-handle ROV for benthic study. *Oceanography* 22:71

Gori A, **Rossi S**, Berganzo-González E, Pretus JL, Dale MRT, Gili JM (2011) Spatial distribution, abundance and relationship with environmental variables of the gorgonians *Eunicella singularis*, *Paramuricea clavata* and *Leptogorgia sarmentosa* (Cape of Creus, Northwestern Mediterranean Sea). *Marine Biology* 158: 143-158

Gori A, **Rossi S**, Linares C, Berganzo E, Orejas C, Dale MRT, Gili JM (2011) Size and spatial structure in deep vs shallow populations of the Mediterranean gorgonian *Eunicella singularis* (Cap de Creus, Northwestern Mediterranean Sea). *Marine Biology* 158: 1721-1732

Sardà R, **Rossi S**, Martí X, Gili JM (2012) Marine Benthic cartography of the NE Catalan Coast (Mediterranean Sea). *Scientia Marina* 76(1): 159-171

Gori A, Bramanti L, Lopez-Gonzalez P, Thoma J, Gili JM, Griny J, Uceira V, France S, **Rossi S** (2012) Characterization of the zooxanthellate and azooxanthellate morphotypes of the Mediterranean gorgonian *Eunicella singularis*. *Marine Biology* 159: 1485-1496

Rossi S, Bramanti L, Broglio E, Gili JM (2012) Trophic impact of long-lived species indicated by population dynamics in a short-lived hydrozoan, *Eudendrium racemosum*. *Marine Ecology Progress Series* 467: 97-111

Ambroso S, Gori A, Dominguez C, Gili JM, Berganzo E, Teixidor N, Greenacre M, **Rossi S (2013)** Spatial distribution patterns of the soft corals *Alcyonium acaule* and *Alcyonium palmatum* in coastal bottoms (Cap de Creus, northwestern Mediterranean Sea). *Marine Biology* 160:3059–3070

Coppari M, Gori A, **Rossi S (2014)** Size, spatial and bathymetrical distribution of the Mediterranean ascidian *Halocynthia papillosa* in a large coastal area of the Northwestern Mediterranean Sea: benthic-pelagic coupling implications. *Marine Biology* 161: 2079-2095

Coppari M, Gori A, Viladrich N, Saponari L, Grinyó J, Olariaga A, **Rossi S (2016)** The role of sponges in the benthic-pelagic coupling process in warm temperate coastal bottoms. *Journal of Experimental Marine Biology and Ecology* 477:57-68

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- **Marine wildlife conservation**

Tsounis G, **Rossi S**, Aranguren M, Gili JM, Arntz W. (2006) Effects of spatial variability and colony size on the reproductive output and gonadal development cycle of the Mediterranean red coral (*Corallium rubrum* L.). *Marine Biology* 148: 513-527

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Tsounis G, **Rossi S**, Gili JM, Arntz W (2007) Red coral fishery at the Costa Brava (NW Mediterranean): case study for an over harvested precious coral. *Ecosystems* 10: 975-986

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Tsounis G, **Rossi S**, Grigg R, Santangelo G, Bramanti L, Gili JM (2010) The exploitation and conservation of precious corals. *Oceanography & Marine Biology: An Annual Review* 48: 161-212

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Rossi S (2013) The destruction of the 'animal forests' in the oceans: Towards an oversimplification of the benthic ecosystems. *Ocean & Coastal Management* 84: 77-85

Tsounis G, **Rossi S**, Bramanti L, Santangelo G (2013) Management hurdles in the sustainable harvesting plans of *Corallium rubrum*. *Marine Policy* 39: 361-364

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Rossi S, Bramanti L, Gori A, Orejas C (2017) An Overview of the Animal Forests of the World. In: Marine Animal Forests: the ecology of benthic biodiversity hotspots. Rossi S, Bramanti L, Gori A, Orejas C [EDITORS]. Springer, Germany. DOI 10.1007/978-3-319-17001-5_1-1

- **Ecosystem services, citizen science and environmental education**

Bramanti L, Vielmini I, **Rossi S**, Stofa S, Santangelo G (2011) Approaching recreational scuba divers to emblematic species conservation: the case of red coral (*Corallium rubrum*). *Journal for Nature Conservation* 19: 312-318

Queiroz L, **Rossi S**, Meireles J, Coelho J (2013) Shrimp aquaculture in the state of Ceará during the period 1970-2012: Trends of the privatization of mangrove forest in Brazil. *Ocean and Coastal Management* 73: 54-62

Xavier JC, Barbosa A, Agusti S, Alonso-Sáez L, Alvito P, Ameneiro J, Avila C, Baeta A, Canário A, Carmona R, Catry P, Ceia F, Clark M S, Cristobo F J, Cruz B, Duarte C M, Figuerola B, Gili JM, Gonçalves A, Gordillo FJ L, Granadeiro JP, Guerreiro M, Isla E, Jiménez C, López-González P J,

Lourenço S, Marques J C, Moreira E, Mota A M, Nogueira M, Núñez-Pons L, Orejas C, Paiva V H, Palanques A, Pearson G A, Pedrós-Alió C, Peña Cantero A L, Power D M, Ramos JA, **Rossi S**, Seco J, Sañe E, Serrão E A, Taboada S, Tavares S, Teixidó N, Vaqué D, Vázquez E, Vieira R, Viñegla B (2013) Polar marine biology science in Portugal and Spain: Recent advances and future perspectives. *Journal of Sea Research* 83: 9-29

Queiroz L, Meireles J, **Rossi S** (2013) Serviços ecossistêmicos costeiros e comunidades tradicionais. *Revista da ANPEGE* 8(10): 153-167

Zorrilla-Pujana J, **Rossi S** (2014) Integrating environmental education in marine protected areas management in Colombia. *Ocean and Coastal Management* 93: 67-75

Rodrigues L, van den Berg J, Loureiro M, Nunes P, **Rossi S** (2015) The Cost of Mediterranean Sea Warming and Acidification: A Choice Experiment among Scuba Divers at Medes Islands, Spain. *Environmental and Resource Economics* 63: 289-311

Zorrilla-Pujana J, **Rossi S** (2016) Environmental Education indicators system for protected areas management. *Ecological Indicators* 67: 146-155

Queiroz L, **Rossi S**, Calvet-Mir L, Ruíz-Mallén I, Betroz S, Prat J, Meireles AJA (in press) Neglected ecosystem services: highlighting the socio-cultural perception of mangroves in decision-making processes. *Ecosystem services*

Rossi S (submitted) Approaching CWC to the society: novel ways to transfer knowledge. In Orejas C & Jiménez (eds), Past, Present and Future of Mediterranean Cold-Water Corals. Springer, Germany.

- **Third generation biodiesel and algal biomass production**

Fuentes-Grünewald C, Garcés E, **Rossi S**, Camp J (2009) Use of the dinoflagellate *Karlodinium veneficum* as a sustainable source of biodiesel production. *Journal of Industrial Microbiology and Biotechnology* 36:1215-1224

Fuentes-Grünewald C, Garcés E, Alacid E, Sampedro N, **Rossi S**, Camp J (2011) Improvement of lipid production in the marine strains *Alexandrium minutum* and *Heterosigma akashiwo* by utilizing abiotic parameters. *Journal of Industrial Microbiology and Biotechnology* 39: 207-216

Sevigné-Itoiz E, Fuentes-Grünwald C, Gasol CM, Garcés E, Alacid E, **Rossi S**, Rieradevall J (2012) Energetic balance and environmental impact analysis of microalgal production for biodiesel generation in a photobioreactor pilot plant. *Biomass and Bioenergy* 39: 324-335

Fuentes-Grünwald C, Alacid E, Garcés E, **Rossi S**, Camp J (2012) Biomass and lipid production of dinoflagellates and raphidophytes in indoor and outdoor photobioreactors. *Marine Biotechnology* 15: 37-47

Santos-Ballardo DU, **Rossi S**, Hernández V, Vázquez-Gómez R, Rendón-Unceta MC, Caro-Corrales J, Valdez-Ortiz A (2015) A simple spectrophotometric method for biomass measurement of important microalgae species in aquaculture. *Aquaculture* 448: 87-92

Santos-Ballardo DU, Font X, Sánchez A, Barrena R, **Rossi S**, Valdez-Ortiz A (2015) Valorization of biodiesel production wastes: Anaerobic digestion of residual *Tetraselmis suecica* biomass and co-digestion with glycerol. *Waste Management and Research* 33: 250-257

Santos-Ballardo DU, **Rossi S**, Reyes-Moreno C, Milán-Carrillo J Valdez-Ortiz A (2016) Microalgae potential as a biogas source: current status, restraints and future potential. *Reviews in Environmental Science and Bio/Technology* DOI 10.1007/s11157-016-9392-z

Santos-Ballardo DU, **Rossi S**, Valdez-Ortiz A (2016) Energía verde a partir de microalgas: Biogás como estrategia para una biorefinería sustentable. Editorial Académica Española, 173 pp. ISBN: 978-3-659-70090-3

Santos-Ballardo DU, Rendón-Unceta MC, **Rossi S**, Vázquez-Gómez R, Reyes-Moreno C, Valdez-Ortiz A (2016) Indoor and outdoor cultures of *Phaeodactylum tricornutum*: Comparison of growth and lipid production. *World Journal of Microbiology and Biotechnology* DOI 10.1007/s11274-016-2089-1

I'm the **editor in chief** of the Springer Major Reference Book "**Marine Animal Forests: the ecology of benthic biodiversity hotspots**". Rossi S, Bramanti L, Gori A, Orejas C [EDITORS]. Springer, Germany (<http://link.springer.com/referencework/10.1007%2F978-3-319-17001-5>), a 48 chapter book with the Animal Forest concepts and future challenges.

https://www.researchgate.net/profile/Sergio_Rossi

Reviewer of the following journals (from 2003):

Marine Biology - Canadian Journal of Fisheries - Canadian Journal of Zoology - Polar Biology - Scientia Marina - Journal of Plankton Research - Journal of the Marine Biological Association of the United Kingdom - New Zealand Journal of Marine and Freshwater Research - Aquatic Ecology - Journal of Experimental Marine Biology and Ecology - Chemistry and Ecology - Fisheries Research - Biological Conservation - Marine Ecology Progress Series - Marine Environmental Research - Marine Biodiversity Records - Chinese Journal of Oceanology and Limnology - Pakistan Journal of Zoology - Progress in Oceanography - Estuarine, Coastal and Shelf Science - Coral Reefs - Lipids- Journal of Marine Systems - Marine Ecology an evolutionary perspective - Hydrobiologia - Plos ONE- Aquaculture Environment Interactions - Invertebrate Reproduction - Algal Research - International Journal of Biodiversity and Conservation - Diseases of aquatic organisms - Journal of Marine Science and Engineering - Ocean and Coastal Management - Aquatic Conservation: marine and freshwater ecosystems - Microbial Ecology - Egyptian Journal of Aquatic Research - Ecological Indicators - Current Biology - Mercator

International and National Scientific Meetings and Workshops

I have participated in 57 scientific meetings and workshops (International Conference on Coelenterate Biology, INTECOL, ASLO, EMBS, SCAR, BIODIVERSITY [UNESCO], ISRS European Meeting, AGU, SIEBM and Marine Protected Areas Congress, Marine Conservation Congress, among others) with more than 50 oral presentations and more than 30 posters. Congress, workshops and short stages have been essential to construct my network (more than 60 senior scientist all over the world, see below).

Invited speaker talks

Simposium Nuove Frontiere per il Corallo Rosso, Alghero (Italia) 2002. "Studio sullo stato delle popolazioni del Corallo Rosso *Corallium rubrum* nella costa Catalana", **Rossi S** & Gili JM

XIV SIEBM, Barcelona (Spain) 2006 "Deep-population survey of *Corallium rubrum* with Remotely Operated Vehicle methods: distribution and demography of an overexploited species", **Rossi S**,

Tsounis G, Padrón T, Gili, Núria JM, Teixidó N, Orejas C, Gutt J

II Congreso Nacional de Biodiversidad, Santa Susanna (Spain). 2009. Oral presentation “Precious corals: the red coral case study” **Rossi S**, Tsounis G, Gili JM

Ist International Workshop on Corallium: Science, Management and Trade, Hong Kong (China). March 2009. “Red coral fishery management: a call for a paradigm shift” **Rossi S**, Tsounis G, Gili JM

IInd International Workshop on Corallium: Lessons from the Mediterranean, Naples (Italy). September 2009. “The deep transformation of the Mediterranean red forest: the Catalanian coast case study” **Rossi S**, Tsounis G, Gili JM

XXI Rassegna del Mare, Alghero (Italy). May 2010. “The decline of animal forests in the Mediterranean sea: new perspectives for the future” **Rossi S**, Tsounis G, Bramanti L

Universidad Nacional Autónoma de México, Puerto Morelos (México) May 2013. “Ecosystem based management: the red coral case study” **Rossi S**

University of Los Andes, Bogotá (Colombia) January 2015. “The forgotten continent: Antarctica” **Rossi S**

Universidade Federal do Oeste do Pará, Santarém (Brasil) November 2015. “The animal forest as carbon sinks: a neglected ecosystem service” **Rossi S**

Universidade Federal de Santa Catarina, Florianópolis (Brasil) December 2015. Seminario in the Geoscience Department in the framework of the Ocean Journeys “The animal forests ecosystem services” **Rossi S**

Post Doc Advisement

Georgios Tsounis. Project BENTOLARV, January-December 2010. Ministerio de Educación y Ciencia grant (co-advised with Prof. Josep-María Gili)

Lorenzo Bramanti. Project Marie Curie IIF CORAL GARDENS, January 2009-December 2010. Marie-Curie grant (co-advised with Prof. Josep-María Gili)

Nadine Shubert. Project IOF Marie Curie ANIMAL FOREST HEALTH (Mexico), January 2014-June 2015. Sub-Contracted from the Marie Curie project

Marcelo Oliveira. Project “*Tecnologia e Metodologia Inovadoras em Diagnóstico de Ecossistemas Marinhos: subsídios para a gestão ambiental*”, August 2015-July 2016 Contract PROGRAMA CIÊNCIAS SEM FRONTEIRAS, CNPq (Brasil)

PhD Advisement

Georgios Tsounis “Demography, Reproductive Biology and Trophic Ecology of *Corallium rubrum* (L.) at the Costa Brava (NW Mediterranean): Ecological Data for Management”, presented in April 2005

Andrea Gori “The Ecology of deep sublittoral populations of Mediterranean Gorgonians”, presented in September 2011

Claudio Fuentes-Grünewald “Dinoflagellates and Raphidophytes Microalgal Groups as Feedstock for Biodiesel”, presented in September 2011

Luciana de Souza Queiroz “Industrial shrimp aquaculture and mangrove ecosystems: A multidimensional analysis of a socio-environmental conflict in Brazil”, presented in December 2014

Francyne Elias-Piera “Biomarkers for the benthic-pelagic coupling in Antarctica: spatial and temporal comparisons in the Weddell Sea”, presented in December 2014

Núria Viladrich “Larval fitness as a key factor in the population dynamics of gorgonians”, presented in July 2015

Martina Coppari “The importance of benthic suspension feeders in the biogeochemical

cycles: active and passive suspension feeders in a coralligenous community”, presented in July 2015

Juanita Zorrilla-Pujana “Education for Natural Protected Areas: the Colombia case study”, presented in January 2016

David Ulises Santos-Ballardo “Micro-algal culture by-products: biogas and secondary metabolites”, presented in February 2016

Miguel Mallo “Mediterranean coastal marine biodiversity under climate change: Local knowledge, perceptions and value”, started in February 2017

Teaching Experience

<u>Place</u>	<u>Course</u>	<u>Period</u>
Universitat de Barcelona	(UB) Benthos Ecology	2002-2007
Universitat Autònoma de Barcelona(UAB)	Ocean Climate Change	2008-2010
	Past, Present and Future	
	Ocean Global Change	2008-2012
	Marine Protected Areas	
	Management	2008-2013

Universidade Federal do Ceará (UFC, Brasil) (Visiting Professor)	An overview of Marine Anthropogenic Impacts	2012
	The marine coastal systems in front of global change	2015
Università del Salento (UniSalento, Italy) (Visiting Professor)	Functional ecology of cnidarians	2015

All are **Graduate and Post Graduate Courses**

Master degrees supervised: 7

Graduate degrees supervised: 34

Member of 9 PhD thesis tribunals, several master student and graduate student final work tribunals (2007-2016), member of the doctorate program in Environmental Science of the UAB (2008-2012), and Environmental Science master program of the UAB (2008-2011).

Coordinator of the ICTA-UAB scientific seminars (2008-2010).

Scientific Outreach Work

I have more than 130 International and Spanish Magazine publications as scientific journalist (GEO, National Geographic, American Scientific, Inmersión, Quercus, Muy Interesante magazines; Público, El País, La Vanguardia journals, among others)

I regularly write in two blogs (in Spanish)

Ocean Curiosity and Commitment, Jot Down

<http://www.jotdown.es/category/ciencias/oceancyc/>

and

Smart Blog of the Fundación Aequae

<http://www.fundacionaquae.org/blog>

BOOKS

Scientific Novels

- **Rossi S**, Polo T (2007) Medusa. Plaza & Janés, España. 302 Pp (Also available in Italian)
- **Rossi S**, Polo T (2010) El cementerio de icebergs. Plaza & Janés, España. 364 pp
- **Rossi S** (2016) Los fiordos de Bjaæn. Amazon Publishing Company. 320 pp
- **Rossi S** (2017) El coral del Diablo. Amazon Publishing Company. 330 pp

Scientific Books for Kids

- Polo T, **Rossi S** (2011) El equipo Krakatek y los vagabundos del hielo. Ediciones B. 201 pp
- Polo T, **Rossi S** (2011) El equipo Krakatek y el pez de oro. Ediciones B. 200 pp

Critic Essay

- Canela A, **Rossi S**, Margarit M (2007) Aether, la esencia de los cuatro elementos. Editorial Mediterrania. 221 pp
- **Rossi S** (2011) Planeta azul: un universo en extinción. Editorial Debate. 432 pp
- **Rossi S** (2012) La Antártida: El futuro del continente blanco. Editorial ENDEBATE. 88 pp (<http://endebate.com/>)
- **Rossi S** (2013) Un viaje a la Antártida: un científico en el continente olvidado. Editorial

Tusquets, sello Metatemas. 268 pp

- **Rossi S** (2014) 30 años de la colección Metatemas (several authors). Opúsculo Sergio Rossi "Desafíos del Cambio Global". Editor: Jorge Wasenberg. Editorial Tusquets, sello Metatemas.

Selected invited scientific outreach talks

I have given numerous talks about the Oceans, Antarctica and the Animal Forest.

Presentation of the Documental "Deep Blue" in the Centre de Biodiversitat de Andorra, 22-23 May 2006

Conference "Transformation of the marine systems: taking the initiative" in the Talk Cycle Climate Change, future perspectives, Semana Europea de la Ciencia in the UAB, 13 November 2007

Round table in the "I Encuentro de Científicos y Tecnólogos en Navarra" 28 October 2008

Conference "Something is moving on the ice: climate change effects on the poles" in the Club Faro de Vigo, 19 May 2010

Invited guest in the HAY Festival

(<https://www.hayfestival.com/portal/index.aspx?skinid=1&localesetting=en-GB>)

in Xalapa (México, 2-5 October 2014) and Medellín & Cartagena de Indias (Colombia, 28 January-1 February 2015) talking about Antarctica "A trip to Antarctica: scientists in the forgotten continent"

Conference at the Centre de Cultura Contemporània de Barcelona (CCCB) "The wondering of exploration", 10 December 2014

NETWORK

Person/s	Institution (city, country)	Topic
Josep-María Gili	ICM-CSIC (Barcelona, Spain)	Benthic-pelagic coupling, suspension feeders, continental platform conservation
Esther Garcés, Jordi Camp	ICM-CSIC (Barcelona, Spain)	Algal cultures, third generation biodiesel bioreactors
Enrique Isla	ICM-CSIC (Barcelona, Spain)	Physical oceanography, Antarctic and Mediterranean sedimentary processes
Anna Sabatés	ICM-CSIC (Barcelona, Spain)	Fish larvae biology and ecology
Josep-María Gasol, Carles Pedrós-Alió	ICM-CSIC (Barcelona, Spain)	Microbial ecology, physiology and diversity
Veronica Fuentes	ICM-CSIC (Barcelona, Spain)	Gelatinous zooplankton distribution, biology and ecology
Mario Giampietro	ICTA-UAB (Barcelona, Spain)	Economical Ecology, multicriteria analysis
Patrizia Ziveri	ICTA-UAB (Barcelona, Spain)	Ocean acidification, paleoclimatology
Victoria Reyes, Laura Calvet-Mir	ICTA-UAB (Barcelona, Spain)	Botanical anthropology, social questionnaires
Jordi García-Orellana	ICTA-UAB (Barcelona, Spain)	Radionuclide analysis
Joan Rieradevall, Carles M Gasol	ICTA-UAB (Barcelona, Spain)	ACV models, energetic optimization models for biodiesel
Esteve Corbera, Isabel Ruiz-Mallén, Luis Rodrigues	ICTA-UAB (Barcelona, Spain)	Climate change impacts in economy and society, ecological economics, food sovereign
Graham Mortyn	ICTA-UAB (Barcelona, Spain)	Mg/Ca ratio, relationship with temperature and acidification

Dieter Gerdes, Rainer Knust, Katia Mintenbek	AWI (Bremerhaven, Germany)	Antarctic benthic communities, ice scouring effects, Antarctic fish physiology
Julian Gutt	AWI (Bremerhaven, Germany)	Antarctic macro epibenthic community distribution, ROV specialist
Covadonga Orejas	IEO (Mallorca, Spain)	Deep sea corals biology and ecology
Mikel Latasa	IEO (Gijón, Spain)	Phytoplankton distribution, production and physiology
Antoine Grémare	UMR-CNRS (Arcachone, France)	Ecology and biogeochemistry of benthic communities
Jean-Claude Duchene	UMR-CNRS (Arcachone, France)	Activity rhythms in active and passive suspension feeders
Rafael Sardà	CEAB-CSIC (Blanes, Spain)	Soft bottom distribution, biology and ecology, polychaete taxonomy
Iosune Uriz	CEAB-CSIC (Blanes, Spain)	Sponge biology and ecology
Susanne Fietz	Stellenbosch University (Stellenbosch, South Africa)	Biogeochemistry, GDGTs, and pigments in sediments and water column
Juan Armando Sánchez	Universidad de los Andes (Bogotá, Colombia)	Octocoral biology and ecology
Carne Huguet	Universidad de los Andes (Bogotá, Colombia)	GDGTs, alkenones, pigments in sediments and water column
Giovanni Santangelo	Dipartimento di Biologia, Università di Pisa (Pisa, Italy)	Reproduction and management of red coral
Lorenzo Bramanti	Observatoire Oceanologique de Banyuls-sur Mer-CNRS (Banyuls, France)	Demographic models of long lived species
Georgios Tsounis	California State University (Northridge, US)	Gorgonian population fitness, red coral biology and ecology, marine

		ecosystem engineers
Andrea Gori	Universitat de Barcelona, Department of Ecology (Spain)	Gorgonian demography, ROV, seascape ecology
Annie Mercier, Chris Parrish	Ocean Scientific center, Memorial University (Newfoundland, Canada)	Deep water coral communities, invertebrate reproduction and trophic ecology, seston quality and biomarkers
Judith Sánchez	ICML-UNAM (Puerto Morelos, México)	Epibiosys, secondary metabolites, chemical ecology
Lorenzo Álvarez-Filip	Instituto de Ciencias del Mar y Limnología-UNAM (Puerto Morelos, Mexico)	Coral reef biodiversity, health status and distribution
Nadine Schubert, Paolo Horta	Federal University of Santa Catarina (Florianópolis, Brasil)	Sea grasses and seaweed photobiology
Jeovah Mireies, Luciana Queiroz	Universidade Federal do Ceará (Fortaleza, Brazil)	Mangrove ecology, shrimp farm environmental impact, environmental racism
Wladimir RL Farias	Universidade Federal do Ceará (Fortaleza, Brazil)	Aquaculture, microalgal culture, biodiesel
Marcelo de Oliveira Soares	Instituto de Ciencias do Mar LABOMAR-UFC (Fortaleza, Brazil)	Atlantic coral reef ecology
André Luis Coelho da Silva, Bruno Andreson	Universidade Federal do Ceará (Fortaleza, Brazil)	Molecular biology of algal cultures, third generation biodiesel
Ricardo Scoles	Universidade Federal do Oeste do Pará (Santarém, Brazil)	Sustainable exploitation of natural resources, Amazonian studies
Angel Valdez Ortiz	Universidad Autónoma de Sinaloa (Sinaloa, México)	Biodiesel, algal by-products, proteomics

Federica Costantini, Marco Abbiati	University of Bologna (Bologna, Italy)	Gorgonian genetics and population connectivity
Carlo Nike Bianchi, Chiara Paoli, Stefano Schiaparelli	DISTAV, Università degli Studi di Genova	Resilience of marine communities, ecosystem service evaluation, photogrammetry
Pablo López-González	Universidad de Sevilla (Sevilla, Spain)	Cnidarians reproduction, gorgonian taxonomy
Josep Lloret	Universitat de Girona (Girona, Spain)	Ecology of coastal fishes, population fitness, artisanal fisheries
Cosimo Solidoro	Istituto Nazionale di Oceanografia e Geofisica Sperimentale (Trieste, Italy)	Marine Ecology and physiological models
John Pandolfi	University of Queensland (Brisbane, Australia)	Management and conservation of Coral Reefs)
Robert G Hughes	Queen Mary and Westfield College, University of London (London, UK)	Hydrozoan biology and ecology
Anna Soler-Membrives, Tomás Munilla	Universitat Autònoma de Barcelona (Barcelona, Spain)	Pycnogonid taxonomy, biology and ecology
Ferdinando Boero, Stefano Piraino	Università del Salento (Lecce, Italy)	Biology and ecology of jellyfish
Americo Montiel	Universidad de Magallanes (Punta Arenas, Chile)	Polychaete biology and ecology, hard bottom cold seas fauna
Sara Frías-Torres	Nature Seychelles (Seychelles)	Coral transplantation, scientific outreach
Maria del Carmen Rendón Unceta	Universidad de Cádiz (Cádiz, Spain)	Microalgae culture, biodiesel experiments
Gabriel Claramunt	Universidad Arturo Prat (Iquique, Chile)	Humboldt current pelagic system dynamics
Chester Sands	British Antarctic Survey (Cambridge, United Kingdom)	Antarctic taxonomy and benthic ecology
Ricard Solé	Universitat Pompeu Fabra (Barcelona, Spain)	Complex systems, theoretical ecology

Yehuda Benayahu	University of Tel Aviv (Tel Aviv, Israel)	Reproduction and distribution of tropical corals
Leslie Hernández	Centro de Investigaciones de Ecosistemas Costeros (La Habana, Cuba)	Ecology and biology of Caribbean cnidarians
Christine Ferrier-Pagés	Centre Scientifique de Monaco (Monaco)	Physiology of corals and gorgonians