Curriculum vitae





Francesca Rossi

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About me

Marine ecologist with expertise on coastal ecosystems.

Present Position:Senior Researcher at the Zoological Station of Naples (SZN) and at CNRS *General fields of interest*:Fundamental and applied ecology; marine ecosystem biodiversity and functioning; ecological resilience to human-related and natural disturbances; experimental quantitative ecology; interested in conservation and restoration ecology, with the believe that fundamental ecology is key for environmental protection; ocean literacy.

Specific fields of interest: Benthic Ecology; Sediment biogeochemistry (Nutrient and Carbon fluxes, decomposition of detritus); Macrofaunal diversity; intertidal and subtidal vegetated and bare sediments; Field and mesocosm experimental design and statistical analyses for univariate and multivariate data (generalised linear models, PERMANOVA); stable isotopes (of nitrogen and carbon) used to trace the fate of nutrients and carbon in food webs and to define trophic niches. Environmental education.

Present research

During the last years, I have been coordinating the Marie Curie grant HEALSEA (2018-2020, fellow: Laura Soissons) and 3 projects funded by private foundations or local authorities: MEDPLAGE (2019, fondation de france), ECOMED (2021, region PACA), Artificial nursery (2022-2024, Agence de l'eau). These projects are on topics related to ecological conservation, restoration and rehabilitation. With HEALSEA project we have searched for indicators of resilience in eelgrass meadows with the purpose of contributing to improve monitoring and management of seagrass meadows. With both MEDPLAGE and ECOMED we are combining ecological knowledge and environmental education in order to improve conservation of Mediterranean beaches. With the Artificial nursery project, we explore ways to ecologically rehabilitating marinas. I am the PhD supervisor of Alix Varenne, in collaboration with the enterprise ECOCEAN, working on the trophic diversity and functioning of ecological engineered artificial structures as nursery installed in marinas and ports. I am involved in the global network GLOW (http://glow.biologia.unipi.it/) on the effect of ALAN (Artificial light at night) on coastal communities and in the ERC grant MERMAID (coordinator: Tatiana Theodoropoulou, CNRS CEPAM Institute, Nice) on the reconstruction of ancient Mediterranean marine resources in relation to coastal development and climate change. Under this project, I am the PhD supervisor of Audrey Marguin, working on fish trophic ecology across archaeological times in the Mediterranean. Eventually, I am contributing to the supervision of a Marie curie fellow (ECOCYST, 2022-2024; fellow: Rachel Clausing) on an ecosystem approach to improve algal forest conservation and restoration.

• EDUCATION AND TRAINING

20/01/2017 - France

HDR "HABILITATION A DIRIGER LA RECHERCHE"-University of Cote d'Azur

Thesis: Ecological stability and conservation of seagrass meadows and associated ecosystems

French title to acknowledge the capacity of a researcher in directing research projects and monitoring PhD students. This achievement is given after the evaluation of a written report and an oral presentation concerning student training (master, PhD), research achievements and publications. I wrote a report on my accomplished research and a memorandum on future research lines i planned to develop and presented my research orally in front of a jury.

Field(s) of study: Natural sciences, mathematics and statistics: Environmental sciences

01/11/1995–27/01/1999 - Italy PHD IN ANIMAL BIOLOGY (Dottorato di Ricerca) - Universita'di Modena e Reggio Emilia

Thesis: Dynamics of detritivores as regulated by the nutritive value of detritus

I studied the role of the nutritional quality and nutrient availability on the surface of the sediment and the biodiversity of infaunal invertebrates in a Mediterranean intertidal flat. The temporal dynamics was studied during 3 years and at selected time I deliberately increased the sediment nutritional quality in the field and measured the effects on benthic infauna. Results are published in 4 peer-reviewed papers. The scientific research was partly financed by the Italian project "Biology and Ecology of commercial Polychaetes for their use in aquaculture" Funded by Italian Ministry of food, agricultural and forest resources (1996-1998).

Field(s) of study: Natural sciences, mathematics and statistics :Natural environments and wildlife Biological and related sciences

01/11/1990-03/02/1995 - Italy

ITALIAN LAUREA IN BIOLOGICAL SCIENCES-University of Pisa

Thesis: Analysis of soft-bottom macrobenthic assemblages in relation to organic pollution.

I studied the diversity of macrofaunal assemblages according to the level of water exchange and sediment type

Score: 110 /110 Cum Laude

Field(s) of study: Natural sciences, mathematics and statistics :Natural environments and wildlife Biological and related sciences

15/09/1983–01/07/1989–Italy MATURITÁ SCIENTIFICA - Liceo Scientifico Galileo Galilei, Castelnuovo di Garfagnana (Lucca)

TRAINING ON STATISTICAL TOOLS AND EXPERIMENTAL DESIGN

2003: "Detecting multivariate changes in biological assemblages: experimental design and data analysis", MJ Anderson (University of Auckland, New Zealand), L Benedetti-Cecchi (University of Pisa, Italy), KR Clarke and P Somerfield (Plymouth Marine Laboratory, UK), from May 26th to June 6th, University of Lecce (Italy).

2000: "Design and analysis of biological experiments: An Advanced Course", AJ Underwood and MG Chapman (University of Sydney, Australia), September11-15th, University of Lecce (Italy).

1999: "Design and analysis of biological experiments", AJ Underwood and MG Chapman (University of Sydney, Australia), from May 24th to June 4th, University of Lecce (Italy).

1995: Statistical course on "Change in benthic communities, an approach to statistical analysis and interpretation" Plymouth Marine Laboratory, Plymouth, UK Lecturers: KR Clarke and R Warwick, Plymouth Marine Laboratory, UK.

• WORK EXPERIENCE

Periods of inactivity: February 1999 – April 1999; May 2002-October 2022; November 2004-April 2005; August 2007-April 2008; August 2009-December 2009; February 2011-September 2011. TOTAL:30 months

01/12/2009 - CURRENT - Paris, France

SENIOR SCIENTIST - FRENCH CENTER FOR SCIENTIFIC RESEARCH, CNRS

ECOSEAS Laboratory, University of Cote d'azur, parc valrose, 06100, Nice | Education |

I held this permanent position for the section 30 of the CNRS. I was part of the MARBEC laboratory (former ECOSYM laboratory), University of Montpellier from December 2009 until 30th June 2018. Since 1st July 2018 I am a member of the laboratory ECOSEAS at the University of Cote d'Azur, Nice. In Montpellier, I joined a team focusing on benthic community ecology and developed a research line on eelgrass ecology. In Nice I have started developing my own research on community ecology and food webs. My main duty is research, but I sporadically participate to teaching at the level of bachelor and master degree with intervention in general ecology, restoration and conservation.

19/10/2021–18/10/2024 - Naples, Italy AFFILIATED RESEARCH FELLOW , STAZIONE ZOOLOGICA NAPOLI (SZN)

01/04/2008 – 01/08/2009 – Coimbra, Portugal TENURE TRACK – UNIVERSIDADE DE COIMBRA

CIMA, Instituto do Mar (now MARE) | Education |

The position was funded by FCT-Fundação para a Ciência e a Tecnologia with EU funding at CIMA, Instituto Do Mar (now MARE). I was hired to develop research on foodweb ecology. I withdrew the position to move to France, after having contributed to install a stable isotope laboratory.

02/05/2005 – 31/08/2007 – Yerseke, Netherlands ASSOCIATED SCIENTIST – NETHERLANDS INSTITUTE OF ECOLOGY (NIOO)

CEME, Centre for estuarine and Marine Ecology | Education |

My contract was funded by 2 projects. For both these projects, my duty was to develop research ideas,run data collection, analyses and publish in peer-reviewed journals:

- PIONIER grant "Sediment biogeochemistry and benthic ecology: two sides of the carbon processing story" of Prof Jack Middelburg (2001-2007). My duty was to develop experimental ecological research on the role of macrofauna in determining energy transfer through the foodweb. I used an *in situ* stable isotope labeling approach to understand the flow of carbon and nitrogen from microorganisms to benthic fauna.
- The project «Alternative dumping strategy in the Westerschelde: Ecological Monitoring program for the dump-test in Walsoorden" Funded by the Port of Antwerpen, Belgium. Coordinator : Prof Peter Herman (2006-2008). I participated to field activities, laboratory analyses and statistical data analyses in order to estimate the improvement of a new, artificial intertidal island built with dumping sediments from excavating channels for navigation.

For both these work, my duty was to develop research ideas, run data collection, analyses and publish in peer-reviewed journals

01/11/2002–31/10/2004–Yerseke,Netherlands MARIE CURIE INDIVIDUAL FELLOW – NETHERLANDS INSTITUTE FOR ECOLOGY (NIOO)

CEME, Centre for estuarine and Marine Ecology | Education

I was granted the fellowship (class30) funded by the European Union under the FP5-EESD Framework program (Grant agreement ID: EVK3-CT-2002-50010). The project was entitled: "Analyses of nutrient-recycling and eutrophication in coastal benthic systems" and I aimed at analysing how the release of nu-

trients from algal mats affected benthic systems and the flow of energy through the food web. I used an in situ experimental approach to manipulate algal mats and stable isotope labelling.

02/05/2001–01/05/2002–Sydney,Australia POST-DOCTORAL FELLOW–UNIVERSITY OF SYDNEY, EICC CENTRE

EICC, Centre for Research on Ecological Impacts of Coastal Cities | Education

Position funded by internal funding at the EICC (ecological Impact of coastal Cities Centre), University of Sydney, Sydney, Australia. My duty was developing research on the ecology of the benthic intertidal soft bottoms. I worked with the impact of wrack accumulations and with the ecology of the soldier crab

02/04/1999–30/04/2001 –Pisa, Italy POST-DOCTORAL FELLOW ("ASSEGNO DI RICERCA") – UNIVERSITY OF PISA

Dipartimento Uomo e Ambiente | Education |

I spent part of this contract working on the ecology of lagoon systems and in particular on the ecology of polychaetes. Since October 2000 I moved to Australia, at the EICC centre at the University of Sydney, with a partial funding from this grant and a funding integration provided by the EICC centre

VISITING SCIENTIST

2019 (14th April-3rdMay): Visiting Scientist with a grant from IFQM (Institute France Quebec Maritime) at the University of Quebec at Chicoutimi (Canada) for research (in collaboration with Prof M Cusson) on eelgrass ecology and resilience.

2015 (3rd May, 2 weeks): Vising scientist at the University of Barcelona (Spain) with a grant funded by the French Embassy in Spain (Program d' Echange Espagne-France) for research in collaboration with Prof J Romero and Dr Teresa Alcoverro on seagrass ecology.

2010 (1st September–30th October): Visiting Scientist at the University of Vigo, Spain (exchange grant funded by Spanish government and Galician government) for teaching and research in collaboration with Prof Celia Olabarria on foodwebs.

2007 (1stOctober)-2008 (31stMarch): Visiting Scientist at the University Rey Juan Carlos, Madrid (Spain) for research in collaboration with Prof Rosa Viejo on macroalgal ecosystems and food webs and at the University of Vigo in collaboration with Prof C Olabarria, University of Vigo, funded by the Spanish Ministry for education and Science

2004 1st August, 1month): Visiting Scientist within the Marie Curie fellowship at the University of Gotenberg (Sweden), Kristineberg laboratory in collaboration with Prof R Rosenberg on intertidal ecology and eutrophication.

2000 (1st October)-2001 (30th April): Visiting Scientist at the EICC (center for ecological impacts on coastal cities) at the University of Sydney, Australia in collaboration with Profs MG Chapman and AJ Underwood.

QUALIFICATIONS IN COMPETITIVE SELECTIONS FOR STABLE POSITIONS

2008: 'qualified in CNRS competition ('*concours*2008') for CR1 positions, section 20 (changed to section 30 now).

2007: 'qualified (section 67) for applying to positions as MCF and PR at French Universities.

OTHER OCCUPATIONS

Between 1995 and 2000 I worked as a short-term contractor for ENEL (Italian society for electricity) and ICRAM (Italian Institute for Marine Research), Italy for conducting environmental impact analyses.

• LANGUAGE SKILLS

Mother tongue(s):ITALIANOther language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1
FRENCH	C1	C2	C1	C1	B2
SPANISH	C1	C1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2:Independent user; C1 and C2: Proficient user

• ACTIVITIES IN WORKING GROUPS AND COMMISSIONS

REVIEWER FOR THE FOLLOWING FUNDING AGENCIES:

- 2021: Expert for HORIZON-MSCA-2021, ENV Panel
- 2021: Connecticut Sea Grant College Program 2022-2024;
- 2021: ANR Agence National de la Recherche, France;
- 2021: FWO Belgium;
- 2021: National Science Centre Poland;
- 2020: FRQNT-Projet de recherche en équipe-Fonds de recherche du Québec;
- 2019, 2020: National Science Foundation (NSF), USA;
- 2018: Academy of Science of Czech Republic;
- 2012: program Iles Eparses, CNRS.

EXPERT COMMITTEES

Since 2022 I am part of the scientific counsel for the Regional French group (region PACA) "Mon Littoral" created following a national directive of the 2021 law "Climate and Resilience"

Since 2021 I am part of the ICES working group on ecosystem services (WGRMES)

Since 2018 I am member of the French National Coastal Fleet Commission ("Commission Nationale Flotte Côtière", CNCF) for scientific proposal evaluation associated to the use of the French scientific flotte of IFREMER and CNRS.

2017-2018 Member of the scientific Council at MARBEC laboratory.

2020: Member of the evaluation committee for a position of technician in ecology, University of Nice Sophia Antipolis, France.

2018-2021: President of the PhD committee of the PhD thesis in Fundamental and Applied Sciences at UCA (tutor: P.Guidetti; co -tutor: P. Pierson, UCA, Nice, France), entitled "Impact of marine noise on juvenile coastal fish"; candidate: Eugenio Di Franco.

2016: Member of the evaluation committee for a position of lecturer (Maitre de Conférence) in Animal Biology, University of Nice Sophia Antipolis, France

2015-2018: Co-responsible of the UE HMBE372: ecology,concept and experimentation at the University of Montpellier, France

SCIENTIFIC REVIEWER FOR THE FOLLOWING JOURNALS WITH IMPACT FACTOR

Regular referee for : Ecological Indicators, PloSONE. *Occasional referees* for several journals on Marine and Freshwater or Ecology WoS categories, including Ecology, Ecology Letters, Estuarine Coastal and Shelf Science, Journal of Sea Research, Marine Biology, Marine Ecology Progress Series, Marine Environmental Research, Progress in Oceanography, PSZN Marine Ecology, Limnology and Oceanography, Biogeochemistry, Frontiers in Marine Science.

Guest editor: Cahiers de Biologie "Blooms and Invasions of marine Species"(2012). *Associated editor* for the Frontiers in Marine Science Journal (IF 5.02) -since 2022

• ADDITIONAL SKILLS

2018: Scientific Diver, French level 1B.

1988: Driving Licence 'B'(cars and motorbikes)

Criteria to replace the "Abilitazione Nazionale II fascia"

a. ISI Normalised scientific productivity ≥ 1 . My value: 2.4 from first publication; see publications section) b. H-index ≥ 15 (WoS, Scopus, Google Scholar – GS); My values: WoS: 21, Scopus: 22, GS: 26; see publications section) c. Citation number ≥ 500 (WoS, Scopus, Google Scholar – GS) My values: WoS: 1246, Scopus: 1311, GS: 1934) Date: 25/02/20122

• TUTORSHIP

SUPERVISOR FOR THE FOLLOWING POST-DOCS

2022-in progress: Marie Curie project ECOCYST at ECOSEAS laboratory, post-doc: Rachel Clausing.

2019-in progress: project on artificial reef biodiversity (HYPER 3D) at ECOSEAS laboratory; post-doc: Elisabeth Riera. She got a post-doc at MHN of Paris starting April 2022

2018-2020: Marie Curie project HEALSEA at MARBEC laboratory; post-doc: Laura Soissons. She now works as project manager at INRIA, Rennes

2018 (4months): post-doc project funded by the Luigi e Francesca Brusarosco post-doctoral grant from SItE (Italian Society of Ecology) for a project on the role of beach cast for benthos; post-doc: Valentina Costa. She is now a post-doc at SZN.

TUTOR/CO-TUTOR FOR THE FOLLOWING PHD THESES

From 2022 Co-tutor of a PhD thesis funded by PON initiative, University of Pisa. Tutor: Elena Maggi, University of Pisa. PhD Candidate: Miriam Ferretti

2021- in progress: Tutor of the PhD thesis in fundamental and applied sciences at UCA, entitled "diversity and trophic functioning of small marinas equipped with Biohut artificial structures"; PhD candidate: Alix Varenne. Project ANRT, CIFRE Mechanism for collaboration industry-Academic institutes

2021(October)-in progress: Tutor of the PhD thesis in fundamental and applied sciences at UCA (Co-tutor: Tatiana Theodoropoulou, CNRS), entitled "Analyses on trophic niche changes in marine resources in relation to fishery strategies in the prehistoric and historic Mediterranean" related to the ERC project MERMAID; PhD candidate: Audrey Marguin.

2014: Tutor of the PhD thesis at the University of Vigo, Spain for recherche on invasive species in the Thau lagoon during a 3 month visit; PhD candidate: Ignacio Gestoso.

2012: Tutor of the PhD thesis at the CSIC, Vigo for research on the feeding behaviour of the seahorses during a 3 month visit; PhD candidate: Sonia Valladares.

2011: Tutor of the PhD thesis at the University of Malaga, Spain during a 2 month visit for research on the use of stable isotopes; PhD candidate: Maria José Reyes Martinez.

2008-2009: Co-tutor of the PhD thesis in ecology at the University of Coimbra entitled: foodwebs in Intertidal ecosystems: a stable isotope approach and trophic network analysis (Tutor: Prof João Carlos Marques, University of Coimbra); PhD candidate:Alexandra Sophia Baptista Vicente Baeta.

2000-2002: Co-tutor of the PhD thesis in ecology at the University of Sydney entitled: "Benthic ecology in sediments associated with boulder fields" (Tutors: AJ Underwood, MG Chapman); PhD candidate: Juan Cruz-Motta.

1999: Co-tutor of the PhD thesis in ecology at the University of Pisa entitled: "Response of deposit feeders to exclusion of epibenthic predators in a Mediterranean intertidal flat (Elba Island, Western Mediterranean,Italy)" (Tutor: C. Lardicci); PhD candidate: Serena Como.

TUTOR/ADVISER FOR THE FOLLOWING UNDERGRADUATES AND MASTER STUDENTS

2021: Adviser for the master Student Giorgia Sanna (University of Pisa). Tutor: Dr Elena Maggi, University of Pisa. Thesis on the impact of artificial light on sea urchins. Tutor for the bachelor Student Julie Etrillard (Engineering school, Polytechnic, University of Cote d'Azur) on ECOMED project.

2020: Co-tutor for the master student Annarita Cotecchia (University of Pisa). Tutor: Elena Maggi, University of Pisa. Thesis on the anthropogenic impacts on beach macrofauna.

2017: Tutor for master student Nolwenn LeBars and for the undergraduate Student Anavel Ravaud at the University of Montpellier. Theses were on the behaviour of herbivores in eelgrasses.

2015: Tutor for master students Marie Pierrejean (University of Montpellier) and Thomas Vanderstagen (University of Brest). Theses were on habitat complexity and functioning of *Zostera marina* associated benthic communities. Tutor for the undergraduate students Marine BOURSALT, Jade CASTEL and Delphine TRIQUET, University of Montpellier. Theses were on Herbivory and diversity in *Zostera noltei* meadows.

2014: Tutor for master student Katia LEGLISE and undergraduate students Justin SIEGWALD and Chia Ting CHEN (University of Montpellier). Theses on the functioning of a *Zostera marina* meadow.

2013: Tutor for master student Colette SOLER and Melanie MAGNIEN(University of Montpellier). Theses were on the impact of a heat wave on benthic communities associated to a *Zostera marina* meadow. Cotutor for the master students Helena FOUCHER and Melanie MASSON (University of Montpellier). Theses were on the response of benthic communities to aquaculture discharges in Vietnam.

2011: Tutor for master student Elodie COLAO (University of Toulouse). Thesis on the Feeding of the mixotrophic bivalve *Loripes lacteus*.

2000: Tutor for master student Yoav PORAT(University of Sydney). Thesis was on the environmental impacts of oyster farming in the Hawkesbury River (Sydney).

1999: Tutor for master student Elena BURCHIELLI (University of Pisa). Thesis was on the influence of food on macrofaunal assemblages of a Mediterranean mudflat.

1998: Tutor for master student Serena COMO (University of Pisa). Thesis was on the influence of food on macrofaunal assemblages of a Mediterranean mudflat.

EVALUATOR OF THESES' REPORTS AND PHD JURIES

2022: PhD examiner at the University of Bretagne Occidentale a Brest, France. PhD candidate: Alexandre Muller on a thesis on the biodiversity of benthic communities associated to eelgrasses

2022-: PhD committee at the University of Montpellier, France. PhD candidate: Adam Bernard on a thesis on the modelling of eelgrass distribution

2022: PhD examiner at the University of Helsinski, Finland. PhD candidate: Tuomas Kahma on a thesis on the trophic role of macrophyte detritus in the Baltic Sea

2021: PhD Jury at the University of Nice Cote d'azur as Invited member. PhD Candidate: Eugenio di Franco on a thesis on marine noise impact

2018: PhD Jury at University of Wageningen, the Netherlands as referee. PhD candidate:Laura Soissons with a subject on eelgrass resilience

2017: PhD Jury at University of Bordeaux, France as referee. PhD candidate: Ludovic Pascal with a subject on bioturbation in eelgrass beds

2016: PhD Jury at University of Barcelona, Spain as referee. PhD candidate: Aurora Ricart with a subject on seagrass habitat complexity

2014: PhD examiner at Macquarie University, Australia. PhD candidate: Lara Beth Ainsley with a subject on the decomposition of primary producers in estuaries

2012: PhD examiner at Macquarie University, Australia. PhD candidate: Andrea Nicastro with a subject on the effects of ocean sprawling

2009: PhD examiner at University of Melboune, Australia. PhD candidate: Allyson Louise O'Brien with a subject on the effect of nutrient enrichment on benthos

2011-2018: Evaluator of thesis reports at the University of Montpellier for the masters in Ecology and Biodiversity(E3B), Biodiversity and Conservation (BIODIV); BAEMT (Bioressources in the Mediterranean and the tropics).

• **PROJECTS**

PROJECT AS PRINCIPAL INVESTIGATOR AT THE ECOSEAS LABORATORY

2021 (5 years): ERC-CoG MERMAID (H2020, Grant Agreement no 101002721). Total budget of 1.9 M \in .Coordinator: Tatiana Anastasia Theodoropoulou (CEPAM laboratory, University of Cote d'Azur and CNRS); **WP leader: Francesca Rossi.** ECOSEAS budget:450 k \in (PhD and 2-years Post-doc salaries). The project investigates human activities in the prehistorical and historical Mediterranean and how they are linked to ecological changes in fish ecology and climate change.

2021(3 years): (1) Industry-Academy PhD project on the biodiversity of Mediterranean ports – funded by the ANRT with the CIFRE scheme (https://www.anrtasso.fr/fr/le-dispositif-cifre-7844). The funding covers a 3-years PhD salary between science and private sector. Partner: ECOCEAN company, Montpellier, France. ThePhD project will study the trophic role of artificial structures used as nursery for "reconciling" severelyimpacted ports with biodiversity.(2) Project on trophic connectivity in small marinas. funded by "Agence del'Eau"(50k€), associated to ANRT PhD project. **Coordinator: Francesca Rossi.**

2021 (1.5 years): ECOMED, Ecology and education on beach *Posidonia* wrack- funded by Region Sud within the life project POSBEMED2 ($62k \in$). **Coordinator: Francesca Rossi,** partners: French associations and SME working on environmental education. This project investigates the ecological role of *Posidonia* beach-cast and explore ocean literacy of teenagers on the subject.

2020 (2 years): HYPER3D: 3D Artificial reef monitoring - Larvotto area (Principaute de Monaco) - funded byFondation Prince Albert 2 (FPA2) and AMPN of Monaco ($63k \in$ by FPA2 and a 1-year Post Doc; 50 k \in by AMNP). **Coordinator: Francesca Rossi.** The project follows the colonization of artificial structures usingHYPER3D technology.

2020 (1 year): MaLiN : Nature-based solutions to protect Marine Life from anthropogenic Noise: investigating the importance of *Posidonia oceanica* meadows -funded by "Crédits Scientifiques Incitatifs (CSI) of the University of Cote d'Azur. A small grant to open new research lines ($7k\in$). **Coordinator: Francesca Rossi;** partner: Lucia Di Iorio, Chorus enterprise. Fieldwork has been postponed due to the pandemic emergency.

2019 (1 year): MedPlage – New education approach for ocean literacy: the case of *Posidonia* wrack on Mediterranean sandy beaches-funded by Fondation de France (15k€). **Coordinator: Francesca Rossi**. This project has determined and tested a protocol for environmental education of teenagers. It is linked to ECOMED project.

2018 (2 years): HEALSEA Innovative indicators of resilience to protect the health status of seagrass meadows: from ecological theory to conservation - Marie Curie program H2020-MSCA-IF-2017(~173K \in). **Coordinator: Francesca Rossi.** This MC project attributed to Laura Soissons (beneficiary) has studied the non-linearity in the response of a seagrass to increasing intensity of a perturbation. A paper is under publication. The work and the publication has been delayed by the pandemic crisis.

PROJECTS AS PRINCIPAL INVESTIGATOR AT THE MARBEC LABORATORY

2014 (2 years): DIVGRASS Diversity and functioning of the eelgrass*Zostera marina*– funded by Fondation TOTAL(40K€) **Coordinator: Francesca Rossi.** The funding was in collaboration with the ZEN2 Network and allowed participating to this network Papers are still under publications.

2014 (2years): ZEN2 Network, ecology and functioning of eelgrasses through an experimental network – funded by NSF United States, (~1M€). Coordinators: E Duffy, J Stachowitz, K Hovel **Leader for French sites: Francesca ROSSI.** The ZEN network was a United states National Science Foundation project to run global scale experiments on the eelgrass*Zostera marina* with a common protocol.

2011 (1 year): CHARM carbon cycling in the eelgrass– funded by the EC2CO program of the CNRS (19K€).**Coordinator: Francesca Rossi.** This project was an experiment to understand the rôle of a heat wave on the functioning of a *Zostera noltei* meadow

OTHER PROJECTS

2021-in progress: Participant and co-founder of the network GLOW on the effect of artificial light on coastal ecosystems (<u>http://glow.biologia.unipi.it/</u>).

2020-in progress: Participant to the Seagrass habitat project initiative by MarineGEO (https://marinegeo.githubio/seagrass).

2019 (3 years): NAUTILUS - Marine noise in the Ligurian Sea: from systematic signal analysis to the impact on marine species", funded by the Academy 3 (Espace, Environnement, Risques et Résilience) of the University of Cote d'Azur (UCA-JEDI). Coordinator: Prof Paolo Guidetti.

2018 (2 years): PEEXNEC - A study on the ecology of *Nassarius mutabilis* to enhance sustainable fishery. Coordinator Cepralmar/IFREMER and P2A development enterprise.

2010 (2 years): CLINVA-Linking climate change and species invasion: effects on intertidal habitats-funded by Ministerio de Ciencia y Innovacion, Spain PICGL2009-07205. Coordinator: Celia Olabarria, University of Vigo, Spain.

2009: Participation to the COST Action ES0609 on Seagrass Productivity (<u>http://seagrassproductivitycom/</u>).

2008 (1year): Cambios recientes y drasticos en la abundancia de dos especies de macroalgas en su limite de distribution: estres fisiologico de los individuos y consequencias de dichos cambios en el funcionamiento dee cosistema costero"-funded by Direccion General de investigacion de Medio Ambiente programa I+D.Coordinator: RosaViejo, University RJC, Madrid, Spain.

2007 (1 year): Uso de isótopos estables de carbono y nitrógeno (13 C y 15 N) para el estudio de los hábitos tróficos de los organismos bentónicos asociados a los varamientos de S. muticum y S. polyschides en playas -funded by Ministerio de educacion y Ciencia, Spain Coordinator: C. Olabarria, University of Vigo Spain.

2006 (1 year): Efectos del alga invasora Sargassum muticum en la estructura y composición de comunidades locales de dos ecosistemas intermareales -funded by Ministerio de educacion y Ciencia, convocatoria de ayudas de Proyectos de Investigación. Coordinator: C Olabarria, University of Vigo, Spain.

2005-2007: participation to the Network of Excellence-European Union "Marine Biodiversity and Ecosystem Functioning (MARBEF)"; Project: "BIOFUSE, Biodiversity and Functioning of shallow ecosystems".

FELLOWSHIPS AND MOBILITY GRANTS

2019: Exchange program France-Quebec – funded by IFQM, Institute France Quebec Maritime (3.5k€).

2015: Exchange program France-Spain – funded by the French Embassy in Spain (1k€).

2007: Mobility grant for visiting University of Vigo, Spain funded by Ministerio de educacion y Ciencia, Spain (2k€).

2002: Marie-Curie individual fellowship (class 30) – funded by the European Commission under the FP5-EESD Framework program (140k€). Grant agreement ID: EVK3-CT-2002-50010 Host Institution: Netherlands Institute of Estuarine Ecology (NIOO-CEME), Yerseke, The Netherlands Overall Score: 89/100.

1999: Grant for Participating to the ICES Young Scientist Conference on Marine Ecosystem Perspectives, Gilleleje, Denmark, funded by ICES.

1995: PhD grant from the Ministry of education and Research, issued by the university of Modena, Italy.

• CONFERENCES AND SEMINARS

INTERNATIONAL CONFERENCES

2022 SPA/RAC IUCN-funded conference on Mairne Vegetation-Genoa -September 2022 Oral and Poster **2022** *February*-Ocean Science Meeting ASLO online Conference. Poster on ocean literacy

August-Monitoring of Mediterranean coastal areas: Problems and measurement techniques – Livorno, Italy. Oral on seagrass detritus ecology

2020: *January*-Workshop on ALAN, Pise Italy.

6h European Coastal Lagoons Symposium - Venice, Italy. Oral on eelgrass *Zostera noltii* recovery by L. Soissons

February-Task force OCEAN-INEE, Paris France

2019: May - COST ACTION MARCONS meeting in Barcelona, Spain

August - 18th International Colloquium on Amphipoda (ICA), Dijon, France

2018: *May* - WCMB world Conference on Marine Biodiversity. Oral on Seagrass resilience

June - ISBW13, Singapore. Oral by L. Soissons on eelgrass resilience

2017: June - RESOMAR workshop, Marseille

September - INEE-CNRS workshop, Bordeaux

- **2016:** *March* 12th ISBW International seagrass biology workshop, Bangor, UK. Oral on epifaunal diversity in *Zostera* meadows
 - June 11th ITRS International Temperate Reef Symposium Pisa, IT. Oral on invasive Sargassum muticum effect on C cycling

- Eurocean Workshop on seagrass ecosystem services, Séte, FR

September - ZEN Final workshop on data analysis, Davis, USA

2015: *February* - ASLO Winter Meeting, Granada, ES Oral on seagrass carbon assimilation and heat waves *April* - Benthic Ecology Meeting, Quebec, CA Oral on epiphyte biomass in an eelgrass meadow

- **2014:** *February* ZEN Kick-off meeting, Washington DC
 - *May* COST Seagrass Productivity Final Meeting, Olhao PT. Oral on the effect of heat waves in a *Zostera noltii* meadow

October - Aquaculture Europe, San Sebastián, Spain; not present. Oral by M. Callier on bioremediation

- **2011:** *December* 5th European Coastal Lagoons Symposium in Aveiro (Portugal). Poster on symbiotic bacterial population in seagrass
- **2010:** *December* SFE Conference, Montpellier. Poster on small-scale disturbance of macroalgal wrack
- 2009: January ASLO meeting, Nice, FR. Oral on recovery from hypoxia in an intertidal mudflat

December - 4th EcoCLR conference. Oral on eutrophication and bioturbation in ecosystem functioning **2006 2007**: *March* - BIOFUSE meetings (responsive mode, within MARBEF).

- **2005:** *September* ASLO Meeting, Santiago de Compostela, ES. Oral on nutrient-recycling and macrofauna*in situ* isotope enrichment approach
- 2004: March MARBEF Kick-off Meeting Theme 2, Palma de Mallorca, Spain

May - MARBEF Kick-off Meeting Brugge, Belgium

May - Eurocean Galway Ireland. Poster: Analyses of nutrient-recycling and eutrophication in coastal benthic systems

June - ERF Conference, Ballina, Australia. Oral on buried algal mats and biodiversity *September* - EMBS Conference, Genova Italy

- **2003:** September EMBS Conference, Aveiro, Portugal
- **2002:** *April* 31 st Benthic Ecology Meeting held in Orlando (Florida). Oral Size-class spatial distribution of the soldier crab *Mictyris longicarpus* Latreille
- **1999**: *December* Young Scientist Conference, ICES at Gilleleje, Denmark

ITALIAN CONFERENCES

- 2007: *September* Congresso SItE, Ancona. Oral: Ecosystem function increase following recovery from severe disturbance of intertidal sediments.
- 2000: *September* Congresso SitE, Pisa. Poster: The recovery of macrozoobenthic community after severe dystrophic crises in a Mediterranean Coastal Lagoon (Orbetello, Italy).
- 1997: *September* Congresso SitE, Parma. Poster: Laguna di Orbetello: valutazioni di alcuni metodi per la determinazione dello stress ambientale.
- 1996: May Congresso SIBM, Portoferraio, Livorno. Poster: The recovery of macrozoobenthic community after severe dystrophic crises in a Mediterranean Coastal Lagoon (Orbetello, Italy). September Congresso AIOL Isola di Vulcano. Poster: Indagine su una prateria di Halophila stipulacea (Forssk)Aschers (Hydrocaritaceae) e analisi dei popolamenti macrozoobentonici associati.

TEACHING AND SEMINARS AT UNIVERSITY OF COTE D' AZUR

Since **2021** 3rd year Bachelor in Biology at the University of the Cote d'Azur (6 h). I proposed a practical course on biodiversity value in daily life in collaboration with Prof. M. Cusson, UQAC, Canada. The idea is constructing a database about how biodiversity is important in the daily life of Canadian and French students.

2018-2020 1st year of the Master MARRES on marine resources at the University of the Cote d'Azur (12 h). This master is broadly oriented towards blue economy Students from around the world touch different aspects from ecology and biology to economy and communication I gave each year on general coastal ecology, with emphasis on the vegetated ecosystems.

2019 Urban Ecology Master RISK organised by the IMREDD Institute, University of Cote d'Azur (6h). I introduced the risks related to habitat fragmentation.

2018 3rd year Bachelor in Biology at the University of the Cote d'Azur (6h). Subject: Animal forests and benthic ecology.

TEACHING AND SEMINARS AT UNIVERSITY OF MONTPELLIER

2015-2018 Master in ecology and evolution, University of Montpellier. Course in Ecology concept and experimentation (HMBE372), 30h. Co-responsible together with Dr Stephan Hattenschwiler. The course aimed at proposing case-studies on modeling or experimental ecology in both terrestrial and marine systems to initiate students to the scientific research. Third year Bachelor in biology, course HLBE508 "Ecophysiology of aquatic organisms" (24h). My course was about the adaptation of aquatic macrophytes from both an evolutionary and an ecological point of view.

2015 Master in aquatic resources, University of Montpellier. Practical class for the course FMOE203 (8h for experimental set up and data collection+extra 4 h on data analyses). I organised an experimental study to be run over 24h about food choice in the sea urchin Paracentrotus lividus.

2014-2015 Bachelor monitoring program for ecology and biology (EBO) program, University of Montpellier. I followed a group of 5 students through the year for their yearly research project Equivalent to 10h teaching.

2010-2015 Master in aquatic resources, University of Montpellier. Course FMOE 368 and 203 on Ecology of marine ecosystems and aquatic ecosystem functioning, respectively (26h). Each year, my intervention was on the marine biodiversity and ecosystem functioning links.

2010-2013 Master in ecology and evolution, University of Montpellier Course GMBE104 on the ecology of aquatic and terrestrial ecosystems (18h). I gave courses each year on experimental design and data analyses and on food webs.

2010 Master on « Biodiversity and ecosystems », at the Universidad de Vigo, Spain I co-organised a 40h course on theory and application of food web studies and stable isotopes.

Master course in ecology and conservation of aquatic ecosystems (5h) at the University Rey Juan Carlos, Madrid, Spain. My course was on stable isotopes and food webs.

TEACHING AND SEMINARS AS A POST-DOC

2007 Master of Environmental Science, University of Njimengen, The Netherlands Course on foodweb ecology in estuarine systems (7.5h).

2001 Marine Ecology master of Science, University of Sydney, Australia. Course on Practical methods for experiments in soft-sediments (2h).

1996-1999 Bachelor in Biology, University of Pisa. Practical course on experimental biology (24 h).

2008 Seminar at the Laboratoire Ecosystèmes lagunaire (ECOLAG, UMR5119), University of Montpellier II, Montpellier, France. Title: "Species Identity, diversity and carbon flow in reassembling faunal communities".

2004 Seminars at the Universities of Ancona and Bologna, Italy. Title: "Benthic trophic ecology: testing hypotheses on the interactions between animals and organic matter"; Seminar at Kristineberg Marine Station and Goteborg University, Sweden. Title: "Interactions between animals and algal mats"; Seminar at Martin Ryan Institute, NUI Galway, Ireland. Title: "Nutrient recycling in sediments: the role of animals",

2003 Seminar at University of Lecce, Italy. Title: "Biodiversity and environment: their interactions under eutrophication in coastal areas". Seminar at University of Bologna, Italy. Title; "Analyses of nutrient recycling from plant detritus and eutrophication in coastal benthic systems"

2002 Seminars at University of Pisa, Italy. Titles: "Spatial distribution of M longicarpus as affected by topographic heterogeneity" and "Disturbance of wrack on macrobenthic assemblages".

• GENERAL PUBLIC COMMUNICATION AND OUTREACH

2022 Conception of a comics for children on the scientific activities for understanding the science of seagrass detritus

2022 Interview for the Horizon Magazine (https://ec.europa.eu/research-and-innovation/en/horizon-magazine/scientists-turn-underwater-gardeners-save-precious-marine-plant)

2022 : participation to the 6/9 de France Bleu Azur Thursday 13th January 2022 about the project ECOMED (http://ecoseas.unice.fr/index.php/news-page)

2021-2022 : Participation to the making of a documentary on beach education, within the beach care project (https://www.casece.com/emea/en-uk/resources/news/2021/case-supports-the-beach-care-project)

2021, 2022: Participation to 2 stakeholder symposia (online) on beach management organised by RegionSud and Sardinia Region within the European life project POSBEMED2

2020: Interview to Nice Matin about beach sustainability (published 21 st November 2020) **School and children education:**

2021-ongoing: Presentations to middle and high schools and organisation of outdoor activities to the beach for educating children to beach ecology in relation to ECOMED project

2019, 2020: Scientific animation for children and participation to the Science Festival

1997-1998: Training of primary- and secondary-school teachers on the effect of marine pollution. Organised by "Acquario di Livorno" in collaboration with the University of Pisa.

• **PUBLICATIONS**

List of Publications

(people in italics are students I contributed to supervise for the published work):

- *Pierrejean M*, Cusson M, Rossi F (2023) Seasonal effects of edge and habitat complexity on eelgrass epifaunal assemblages. Marine Ecology progress Series <u>https://doi.org/10.3354/meps14385</u>
- *Riera E*, Hubas C, Ungermann M, Rigot G, Pey A, Francour P, Rossi F (2023) Artificial reef effectiveness changes among types as revealed by underwater hyperspectral imagery. Restoration Ecology <u>https://doi.org/10.1111/rec.13978</u>
- Yu L, Khachaturyan M, Matschiner M, Healey A, Bauer D, Cameron B, Cusson M, Emmett Duffy J, Joel Fodrie F, Gill D, Grimwood J, Hori M, Hovel K, Hughes AR, Jahnke M, Jenkins J, Keymanesh K, Kruschel C, Mamidi S, Menning DM, Moksnes P-O, Nakaoka M, Pennacchio C, Reiss K, Rossi F, Ruesink JL, Schultz ST, Talbot S, Unsworth R, Ward DH, Dagan T, Schmutz J, Eisen JA, Stachowicz JJ, Van De Peer Y, Olsen JL, Reusch TBH (2023) Ocean current patterns drive the worldwide colonization of eelgrass (Zostera marina) Nature Plants <u>https://doi.org/10.1038/s41477-023-01464-3</u>
- Varenne A, Richardson LE, Radford AN, Rossi F, Lecaillon G, Gudefin A, Bérenger, L, Abadie E, Boissery P, Lenfant P, Stephen Simpson (2023) Immersion Time Determines Performance of Artificial Habitats in Commercial Harbours by Changing Biodiversity of Colonising Invertebrate Assemblages. Diversity, 15, 505. <u>https://doi.org/10.3390/d15040505</u>
- *Di Franco, E.*; Rossi, F.; Di Iorio, L.; Sdiri, K.; Calò, A.; Di Franco, A.; Harmelin-Vivien, M.; Spennato, G.; Cottalorda, J.-M.; Derijard, B.; Bussotti, S.; Pierson, P.; Guidetti, P. (2023) Marine Noise Effects on Juvenile Sparid Fish Change among Species and Developmental Stages. Diversity, 15, 92. <u>https:// doi.org/10.3390/d15010092</u>
- Duffy J. Emmett, John J Stachowicz, Pamela L Reynolds, Kevin A Hovel, Marlene Jahnke, Erik E Sotka, Christoffer Boström, Katharyn E Boyer, Mathieu Cusson, Johan Eklöf, Aschwin H Engelen, Britas Klemens Eriksson, F Joel Fodrie, John N Griffin, Clara M Hereu, Masakazu Hori, A Randall Hughes, Mikhail V Ivanov, Pablo Jorgensen, Claudia Kruschel, Kun-Seop Lee, Jonathan S Lefcheck, Per-Olav Moksnes, Masahiro Nakaoka, Mary I O'Connor, Nessa E O'Connor, Robert J Orth, Bradley J Peterson, Henning Reiss, Katrin Reiss, J Paul Richardson, Francesca Rossi, Jennifer L Ruesink, Stewart T Schultz, Jonas Thormar, Fiona Tomas, Richard Unsworth, Erin Voigt, Matthew A Whalen, Shelby L Ziegler, Jeanine L Olsen (2022). A Pleistocene legacy structures variation in modern seagrass ecosystems. *Proceedings of the National Academy of Sciences*, *119*(32), e2121425119. <u>10.1073/pnas.2121425119</u>
- Bussotti S, Guidetti P, Rossi F (2022) Posidonia oceanica wrack beds as a fish habitat in the surf zone Estuarine Coastal and Shelf Science <u>10.1016/j.ecss.2022.107882</u>
- Gross CP, Duffy JE, Hovel KA, Kardish MR, Reynolds PL., Boström C, Boyer KE, Cusson M, Eklöf J, Engelen AH, Eriksson BK, Fodrie FJ, Griffin JN, Hereu CM, Hori M, Hughes AR, Ivanov MV, Jorgensen P, Kruschel C, Lee KS, Lefcheck J, McGlathery K, Moksnes PO, Nakaoka M, O'Connor MI, O'Connor NE, Olsen JL, Orth RJ, Peterson BJ, Reiss H, Rossi F, Ruesink J, Sotka EE, Thormar J, Tomas F, Unsworth R, Voigt EP, Whalen MA, Ziegler SL and Stachowicz JJJ 2022 The biogeography of community assembly: latitude and predation drive variation in community trait distribution in a guild of epifaunal crustaceans Proceedings of the Royal Society B, 289(1969) <u>http://doi.org/10.1098/rspb.2021.1762</u>
- Impact of noise pollution on Mediterranean sparid settlers (2021) *Doctoral thesis of E. Di Franco*, Universite' de la cote d'Azur, France-contributed to all chapters
- *Costa V,* Chemello R, Iaciofano D, Lo Brutto S, Rossi F 2021 Small-scale patches of detritus as habitat for invertebrates within a Zostera noltei meadow, Marine Environmental Research, 171, 105474. <u>https://doi.org/10.1016/j.marenvres.2021.105474</u> (WOS:000701668100002)

- Giakoumi S, Pita C, Coll M, Fraschetti S, Gissi E, Katara I, Lloret-Lloret E, Rossi F, Portman M, Stelzenmüller V, Micheli F 2021 Persistent gender bias in marine science and conservation calls for action to achieve equity. Biological Conservation, 257, 109134. https://doi.org/10.1016/j.biocon.2021.109134 (WOS:000663302500014)
- Gagnon K, Gustafsson C, Salo T, Rossi F, Gunell S, Richardson JP, Reynolds PL, Duffy JE, Boström C 2021 Role of food web interactions in promoting resilience to nutrient enrichment in a brackish water eelgrass (*Zostera marina*) ecosystem. Limnology and oceanography, 66(7), 2810–2826. https://doi.org/10.1002/lno.11792 (WOS:000654272100001)
- Hovel KA, Duffy EJ, Stachowicz JJ, Reynolds P, Boström C, Boyer C , Cimon S, Cusson M, Fodrie JL, Gagnon K, Hereu CM, Hori M, Jorgensen P, Kruschel C, Nakaoka M, O'Connor NE, Rossi F, Ruesink J, Tomas F, Ziegler S 2021 Joint effects of patch edges and habitat degradation on faunal predation risk in a widespread marine foundation species. Ecology, 102(5), e03316. <u>https://doi.org/ 10.1002/ecy.3316</u> (WOS:000637684700001)
- Whalen, MA, Whippo RDB, Stachowicz JJ, York PH, Aiello E, Alcoverro T, Altieri AH, Bertolini C, Benedetti Cecchi L, Bresch M, Bulleri F, Carnell PE, Cimon S, Connolly RM, Cusson M, Diskin MS, D'Souza E, Flores AAV, Fodrie FJ, Galloway AWE, Gaskins LC, Graham OJ, Hanley TC, Henderson CJ, Hereu CM, Hessing-Lewis F, Hovel KA, Hughes BB, Hughes AR, Hultgrin KM, Jänes H, Janiak DS, Johnston LN, Jorgensen P, Kelaher BP, Kruschel C, Lanham BS, Lee K, Lefcheck JS, Lozano-Álvarez E, Macreadie PI, Monteith ZL, O'Connor NE, Olds, O'Leary JK, Patrick CJ, Pino O, Alistair G, Poore P, Rasheed MA, Raymond WW, Reiss K, Rhoades OK, Robinson MT, Ross PG, Rossi F, Schlacher TA, SeemannJ, Silliman BR, Smee DL, Thiel M, Unsworth RKF, van Tussenbroek BI, Vergés A, Yeager ME, Yednock BK, Ziegler SL, Duffy JE 2020 Climate drives the geography of marine consumption by changing predator communities. Proceedings of the National Academy of Sciences, <u>117(45)</u>, 28160–28166. https://doi.org/10.1073/ pnas.2005255117 (WOS:000590738600026)
- Rossi F, *Pierrejean M* 2018. Habitat degradation of an eelgrass bed variably affects epifaunal biodiversity 2018 WCMB world Conference on Marine Biodiversity, Montreal, CA. PeerJ PrePrints; San Diego (Mar 2018). DOI:10.7287/peerj.preprints.26789v1
- *Di Franco E*, Pierson P, Di Iorio L, Calò A, Cottalorda JM, Derijard B, Di Franco A, Galvé A, Guibbolini M, Lebrun J, Micheli F, Priouzeau F, Risso-de Faverney C, Rossi F, Sabourault C, Spennato G, Verrando P, Guidetti P 2020 Effects of marine noise pollution on Mediterranean fishes and invertebrates: A review. Marine Pollution Bulletin, 159, 111450. https://doi.org/10.1016/j.marpolbul.2020.111450 (WOS:000568699400020)
- *Costa V*, Mazzola A, Rossi F, Vizzini S 2019 Decomposition rate and invertebrate colonization of seagrass detritus along a hydrodynamic gradient in a Mediterranean coastal basin: The Stagnone di Marsala (Italy) case study. Marine Ecology-an Evolutionary Perspective, 40(6), e12570. https://doi.org/10.1111/maec.12570 (WOS:000491330500001)
- Rossi F, Viejo RM, Duarte L, Vaz-Pinto F, *Gestoso I*, Olabarria C 2019 Removal of an established invader can change gross primary production of native macroalgae and alter carbon flow in intertidal rock pools. PLoS ONE 14(12), e0217121. https://doi.org/10.1371/journal.pone.0217121 (WOS:000533969300003)
- Röhr ME, Holmer M, Baum J, Björk M, Boyer K, Chin D, Cimon S, Cusson M, Dahl M, Deyanova M, Duffy JM, Eklöf J, Geyer, JK, Griffin JN, Gullström M, Hereu CM, Hori M, Hovel KA, Hughes AR, Jorgensen P, Kiriakopolos S, Moksnes PO, Nakaoka M, O'Connor MI, Peterson B, Reiss K, Reynolds PL, Rossi F, Ruesink J, Santos R, Stachowicz JJ, Tomas F, Lee KS, Unsworth RKF, Boström C 2018 Blue carbon storage capacity of temperate eelgrass (*Zostera marina*) meadows. Global Biogeochemical Cycles, 32(10), 1457–1475. <u>https://doi.org/10.1029/2018GB005941</u> (WOS:000450063500004)
- Como S, Carpentier A, Rossi F, Dupuy C, Richard P, Feunteun E, Lefrançois C 2018 Stable isotopes as tracers can reveal resource allocation in juvenile golden gray mullet (*Liza aurata*, Risso 1810). Journal of Experimental Marine Biology and Ecology, 503, 72–79. https://doi.org/10.1016/j.jembe.2018.01.009 (WOS:000431161000009)

- Reynolds P, Stachowicz J J, Hovel K, Boström C, Boyer K, Cusson M, Eklöf J S, Eriksson BK, Fodrie J, Griffin J, Jorgensen P, Hereu C, Hori M, Hughes R, Ivanov M, Kruschel C, Lee KS, Moksnes PO, Nakaoka M, Tomas Nash F, Olsen J, O'Connor M, O'Connor N, Orth RJ, Rossi F, Ruesink J, Sotka E, Unsworth R, Whalen M, Duffy J E 2018 Latitude, temperature and habitat complexity predict predation pressure in eelgrass beds across the Northern Hemisphere. Ecology, <u>99(1), 29–35.</u> https://doi.org/10.1002/ecy.2064 (WOS:000419240900004)
- Gusmao L, de Haan S, Bostrom C, Duffy EJ, Leopardas V, Nakaoka M, Reiss K, Reynolds PL, Rossi F, Stachowicz JJ, Lana P, Eriksson BK 2017 Seagrass meadows induce a functional cascase by determining functional trait composition of sediment fauna -Chapter 4 In Leite Gusmao Junior, J. B. (2017). Sediments and functional traits: Applying a functional trait approach to assess marine macrobenthic function. Rijksuniversiteit Groningen.
- *Brouwer GM*, Wolthers M, Hazeleger J, Rossi F, Lourens L, Middelburg JJ, Duijnstee I 2016 Diet shifts and population dynamics of estuarine foraminifera during ecosystem recovery after experimentally induced hypoxia crises. Estuarine, Coastal and Shelf Science, 170, 20–33._ <u>https://doi.org/10.1016/j.ecss.2015.12.015</u> (WOS:000372379900003)
- Duarte L, Rossi F, Viejo R 2015 Effects of the decline of the alga *Fucus serratus* L at the rear edge of its range on benthic assemblages and trophic linkages. Marine Ecology Progress Series, 527, 87–103. <u>https://doi.org/10.3354/meps11248</u> (WOS:000354395700007)
- *Brouwer GM*, Wolthers M, Hazeleger J, Rossi F, Lourens F, Middelburg JJ, Duijnstee I Differential response of intertidal foraminifera to ecosystem recovery succeeding experimentally-induced hypoxia 2015. Journal of Foraminiferal Research, 45(3), 220–234. https://doi.org/10.2113/gsjfr.45.3.220 (WOS:000359097300002)
- Faure D, Bonin P, Duran R, Amato, P, Arsene-Ploetze F, Auguet JC, ..., Vuilleumier S 2015. Environmental microbiology as a mosaic of explored ecosystems and issues. Environmental Science and Pollution Research, 22(18), 13577–13598. <u>https://doi.org/10.1007/s11356-015-5164-5</u> (WOS:000360844200002)
- Rossi F, *Baeta A*, Marques JC 2014 Stable isotopes reveal habitat-related diet shifts in facultative deposit-feeders. Journal of Sea Research, 95, 172–179. https://doi.org/10.1016/j.seares.2014.07.004 (WOS:000347762500018)
- Rossi F, *Colao E*, Martinez MJ, Klein JC, Carcaillet F, Callier MD, Wit R, Caro A 2013 Spatial distribution and nutritional requirements of the endosymbiont-bearing bivalve *Loripes lacteus* (sensu Poli, 1791) in a Mediterranean *Nanozostera noltii* meadow. Journal of Experimental Marine Biology and Ecology, 440, 108–115. <u>https://doi.org/10.1016/j.jembe.2012.12.010</u> (WOS:000316092500016)
- Ecosystem recovery after hypoxia: what can foraminifera indicate (2014) *Doctoral Thesis of M. Brouwer* Utrecht Studies in Earth Sciences, The Netherlands – contributed to 2 chapters
- Rossi F, Gribsholt B, Gazeau F, *Di Santo V*, Middelburg JJ 2013 Complex Effects of Ecosystem Engineer Loss on Benthic Ecosystem Response to Detrital Macroalgae. PLoS ONE, 8 <u>https://doi.org/10.1371/journal.pone.0066650</u> (WOS:000320846500084)
- Van Colen C, Rossi F, Montserrat F, Andersson MGI, Gribsholt B, Herman PMJ, Degraer S, Vincx M, Ysebaert T, Middelburg JJ 2012 Organism-sediment interactions govern post-hypoxia recovery of ecosystem functioning. PLoS ONE 7(11), e49795. <u>https://doi.org/10.1371/journal.pone.0049795</u> (WOS:000311821000111)
- Bonnet D, Carcaillet F, Klein J, Laabir M, Rossi F 2012 Blooms & Invasions of Marine Species FOREWORD. Cahiers de Biologie Marine, 53: 305-306 Introduction to the Special Issue WOS:000306634500001
- Rossi F, Incera M, Callier M, Olabarria, C 2011 Effects of detrital non-native and native macroalgae on the nitrogen and carbon cycling in intertidal sediments. Marine Biology, 158 (12), 2705–2715. https://doi.org/10.1007/s00227-011-1768-6 (WOS:000299182500009)

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- Nitrogen cycling in a turbid, tidal estuary (2007) *Doctoral thesis of MG Andersson MG,* Geologica Ultraiectina University of Utrecht, The Netherlands -contributed to 1 chapter
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