

Personal information

Birth date: 08/04/1975

Citizenship: French

Languages: French, English, Spanish

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29680 Roscoff, France

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Academic education and professional experience

- Jan. 2019- ...** Director of the research department *Adaptation and diversity in marine environment* (AD2M) - UMR 7144 CNRS & Sorbonne University at the Station Biologique de Roscoff, France
- Nov. 2018- ...** Senior Scientists (DR) at CNRS. UMR7144 Station Biologique de Roscoff, France.
- 2018** Elected member at the research council of Sorbonne University.
- 2018** Deputy Director of the research department *Adaptation and diversity in marine environment* (AD2M) - UMR 7144 CNRS & Sorbonne University at the Station Biologique de Roscoff, France
- Nov. 2015** Habilitation à diriger des recherches (HDR). *Plankton Ecology* Pierre and Marie Curie University (UPMC), France.
- 2007-2018** Research associate (CR) at CNRS. UMR7144 Station Biologique de Roscoff, France.
- 2006-2007** Post-doctorate. *Ecological Significance of Uncultured Marine Stramenopiles* ESUMAST project. Intra-European Marie Curie fellowship, MEIF-CT-2005-025000. Institut de Ciències del Mar (ICM-CSIC), Barcelona, Spain.
- 2005** Post-doctorate. *Molecular diversity of picoplankton in the Sargasso sea and the Florida Strait*. Rosenstiel School of Marine & Atmospheric Science (RSMAS), University of Miami, USA.
- 2004** Post-doctorate. *Development of TSA-FISH for calcified phytoplankton and cryptophytes algae*. Station Biologique de Roscoff, CNRS, France.
- 2000-2004** PhD. *Structure and diversity of picoeucaryotes community in marine environments*. Pierre et Marie Curie university (UPMC), Station Biologique de Roscoff, France. Supervision: Dr. N. Simon and Dr. D. Vaultot

Student supervision and evaluation

Post-doctorate:

7- Dr. C. Bachy, 2016-2018, (MSCA-IF, EU). *Supervision 100%*

In the DYNAMO project Dr. Bachy investigate the diversity and functional role of the prokaryotic microbiome associated with radiolarian protists. He uses metabarcoding, transcriptomic and metabolomics approaches.

6- Dr. V. Jimenez, 2016 – 2019, (CNRS, France). *Supervision 50%*

Dr. Jimenez works on survival of phytoplankton during low light regimes in polar winter. In the frame of the ANR PHYTOPOL she studies more specifically the role of mixotrophy.

5- Dr. E. Villar, 2016 – 2018, (CNRS, France). *Supervision 100%*

In the ANR IMPEKAB, Dr. Villar tests the hypothesis of plankton bleaching using a combined physio-transcriptomic approach.

4- Dr. L. Pillet, 2013 - 2015, (SNF, Switzerland). *Supervision 100%*

Through an experimental approach Dr. pillet worked on the specific recognition mechanisms between radiolarians and their symbiotic microalgae. Dr. Pillet also initiated the molecular

phylogeny of Nassellaria, an important Radiolaria taxa in the fossil record. Dr. Pillet is holding a temporary assistant professor position at the Geneva University.

3- Dr. A. Gutierrez, 2013 - 2015, (CNRS, France). *Supervision 100%*

In the SYMBIOX project, Dr. Gutierrez investigated the role of dimethyl-sulphur compounds and its derivatives in the functioning of planktonic photosymbiosis. Dr. Gutierrez is now group leader at NIWA Wellington, New Zealand.

2- Dr. S. Balzano, 2011 - 2011, (CNRS, France). *Supervision 100%*

Dr. Balzano initiated the exploration of transcriptomic datasets to study radiolarian photosymbiosis, in particular with respect to the role of C type lectins in the specificity of the association. Dr Balzano is currently performing his research in the Netherlands (NIOZ, Texel).

1- Dr. R. Siano, 2009 – 2010, (UPMC, France). *Supervision 100%*

The objectives of Dr. Siano were to start the molecular characterization of the microalgal diversity in symbiosis with Radiolaria and also to use the FISH-TSA technique to evaluate the prevalence of parasitism in oligotrophic oceans. Dr. Siano holds a permanent research position at IFREMER, France.

PhD thesis:

6- Joost Mansour, 2018-2021, (Sorbonne University, Paris, France). *Supervision 100%*

In the frame of the EU-ITN project MixITiN the PhD candidate will investigate the physiology of photosymbiosis and contribute to modelling of mixotrophy in oceanic ecosystems functioning.

5- N. Llopis-Monferrer, 2017-2020, (UBO, Brest, France). *Supervision 50%*

Natalia is investigating the role of Radiolaria in the silica biogeochemical cycle using physiological and imaging data.

4- M. Mendez-Sandin, 2016-2019, (UPMC, Paris, France). *Supervision 100%*

Miguel is elaborating a molecular phylogeny of all Radiolaria to investigate their evolutionary history and ecology in a geological context.

3- A. Meng, 2014-2017, (UPMC, Paris, France). *Supervision 33%*

Arnaud developed bioinformatics pipelines to investigate plankton symbiosis using transcriptomic and meta-transcriptomic data. Dr. Meng is pursuing his work at CEA Genoscope, Evry, France.

2- T. Biard, 2012-2015, (UMPC, Paris, France). *Supervision 75%*

During the Emergence UMPC “DESIRS” project Tristan using a combination of both molecular and *in situ* imaging data to unveil the important biomass and distribution of Collodaria (Radiolaria) in oceanic ecosystems. Dr. Biard is a post-doctorate fellow at SCRIPPS oceanographic institute in California, USA.

1- J. Decelle, 2009-2012, (UPMC, Paris, France). *Supervision 75%*

Johan studied the diversity of Acantharia (Radiolaria) and their microalgal symbionts in an ecological and evolutionary framework. Dr. Decelle is now in post-doctorate (EU Marie-Curie fellowship) in Leipzig, Germany.

Master II:

10- E. Gadouin, Jan. 2018 - June 2018, (UPMC, Paris, France). *Supervision 100%*

Investigates the phylogenetic relationship between Radiolaria and their microalgal symbionts.

9- C. Deniaud, Mar. 2016 - Jul. 2016, (Univ. Aix-Marseille). *Supervision 50%*

Participated to the elaboration of the scientific and technical content of the PlanktoMania project.

8- C. Guidat, Jan. 2016 - June 2016, (Univ. Rennes 1, France). *Supervision 50%*

Worked on characterizing ultra-plankton fossils in ancient oceans.

7- T. Linhart, Jan. 2016 - June 2016, (UPMC, Paris, France). *Supervision 50%*

Evaluated the resistance of microalgal symbionts to thermal stress.

6- M. Manno, Mar. 2014 - Aug. 2014, (Univ. de Nantes). *Supervision 50%*

Investigate molecular diversity of plankton communities in time series.

5- C. Poirier, Feb. 2012 - Jul. 2012, (UPMC, Paris, France). *Supervision 100%*

Molecular diversity of Radiolaria and their symbionts.

- 4- **J. Hilton, June 2005 - Sept. 2005**, (University of Miami, USA). *Supervision 75%*
Diversity of picoeucaryotes in the Florida straits.
- 3- **C. Colson, June 2003 - Sept. 2003**, (ENS, Lyon, France). *Supervision 50%*
Diversity and abundance of picoplankton in the Arctic Ocean.
- 2- **P. Karleskind, Apr. 2003 - Aug. 2003**, (Ecole Polytechnique, France). *Supervision 50%*
Diversity and abundance of picoplankton in the Indian Ocean.
- 1- **D. Doussal, Mar. 2002 - Sept. 2002**, (INSFA, Rennes, France). *Supervision 50%*
Molecular probes to investigate picoeucaryote seasonal cycles.

Bachelor internship and other:

- 5- **W.-T. Chen, Nov. 2016 - Oct. 2017**, Doctorate 1 year stay (Taiwan Univ.). *Supervision 100%*
- 4- **C. Choquel, Apr. 2016 - Aug. 2016**, (M1 Univ. Rennes, France). *Supervision 100%*
- 3- **N. Kinebanyan, Sept. 2015 - Dec. 2015**, (CRI-Paris, France). *Supervision 100%*
- 2- **R. Brulard, Jul. 2014 - Aug. 2014**, (UPMC, Paris, France). *Supervision 100%*
- 1- **R. Martinez, Aug. 2006 - Sept. 2006**, (Autonomous Univ. of Barcelona). *Supervision 50%*

PhD advisory board:

- 3- **A. Mas, 2015-2016**, (Univ. Rennes 1, France) Evolution of functional traits in heterogenous environments. Test of the black queen hypothesis
- 2- **F. Gaboyer, 2013**, (UBO, IUEM Brest, France) Functional potential of subsurface microbial community through physiology and metagenomic approaches
- 1- **E. Foulon, 2008**, (UPMC, Paris, France) Genetic diversity, ecology and physiology of the species *Micrmonas pusilla* (Chlorophyta, Prasinophyceae)

PhD committee

- 16- **Dr. M. M. Brisbin, 2020**, (Okinawa Institute of Science and Technology, Japan)
Characterization of *Acantharea-Phaeocystis* photosymbioses: distribution, abundance, specificity, maintenance and host-control.
- 15- **Dr. N. Djeghri, 2019**, (Université de Bretagne Occidentale, France)
Variabilité et plasticité de la nutrition des méduses à Zooxanthelles.
- 14- **Dr. C. Lemonier, 2019**, (Université de Bretagne Occidentale, France)
Effet des changements environnementaux sur la dynamique des communautés microbiennes: evolution et adaptation des bactéries dan le cadre du développement de l'Observatoire Microbien en Rade de Brest et Mer d'Iroise.
- 13- **Dr. S. Farhat, 2018**, (Université Paris Saclay, France)
Analyses comparatives des genomes et transcriptomes de deux espèces d'ameobophrya distinctes et termes d'impact sur l'hôte
- 12- **Dr. H. Kleinjan, 2018**, (Sorbonne University, France)
The influence of bacteria on the adaptation to changing environments in ectocarpus: a system biology approach.
- 11- **Dr. S. Ramondenc, 2017**, (UPMC, Paris, France)
Analyses of spatio-temporal variations of gelatinous plankton and its roles on carbon fluxes using a combination of experimental and numerical ecology approaches.
- 10- **Dr. M. Chiarello, 2017**, (Montpellier Univ., France)
Biodiversity of marine organisms' skin microbiome: variability, determinants and importance in the ecosystem.
- 9- **Dr. C. Rodriguez Giner, 2017**, (Politecnica de Catalunya Univ., Spain)
Spatial, temporal and behavioural patterns of marine protists
- 8- **Dr. T. Vannier, 2017**, (Paris-Saclay Univ., France)
Dynamics of genomes structure and their biogeography in the oceans: comparative analyses of metagenomic data from the Tara Oceans project for the *Bathycoccus* microalgae and global planktonic communities.

- 7- Dr. R. Meheust, 2016**, (UPMC, Paris, France)
Study of introgressive processes in evolution by network approaches.
- 6- Dr. B. Serranito, 2016**, (Toulon Univ., France)
Study of the drivers of the inter-annual dynamic of coastal phyto and zooplankton communities in the North-Occidental Mediterranean Sea (Toulon, France).
- 5- Dr. A.-M. Cabello Pérez, 2016**, (Universidad de las Palmas de Gran Canaria, Spain)
Marine photosynthetic picoeukaryotes: community structure at different spatial scales.
- 4- Dr. J.-B. Romagnan, 2013**, (Nice Sogia-Antipolis Univ., France)
Planktonic communities from bacteria to macroplankton: temporal dynamic in the Ligurian Sea and distribution in the global ocean by the Tara Ocean expedition. A holistic imaging approach.
- 3- Dr. L. Pillet, 2012**, (Geneva Univ., Switzerland)
The genus *Elphidium* (Foraminifera): Phylogeny, genetics, and kleptoplastidie.
- 2- Dr. T. Lefort, 2012**, (Universidad de las Palmas de Gran Canaria, Spain)
Patterns in marine microbial community structure.
- 1- Dr. D. Arlsan, 2011**, (Aix-Marseille II Univ., France)
New methods to detect virus in the environment: Application to the identification of new giant viruses in marine environments.

Research Habilitation (HDR) committee

- 3- Dr. E. Pelletier, 2020**, (Université Paris Saclay, France)
Environmental genomic
- 2- Dr. F. Lombard, 2017**, (UPMC, Paris, France)
Zooplankton eco-physiology, from small scale processes to large scale implications.
- 1- Dr. C. Lepère, 2016**, (Blaise Pascal Univ., Clermont-Ferrand, France)
Structure, dynamic and ecological roles of eukaryote picoplanktonic communities in aquatic ecosystems: from lac Pavin to the Pacific Ocean.

Staff recruitment committee

- 4- Poste MC 64 0933, 2017**, (UBO– LEMAR UMR6539, Brest, France)
Biogeochemistry of the silicon cycle and silica uptake systems.
- 3- Poste MCF 67 0519, 2015**, (Claude Bernard Lyon 1 Univ., Lyon, France)
Environmental microbial genomic and soil biological functioning.
- 2- Poste MCF 64 1193, 2013** (UBO– LMEE international CNRS chair, Brest, France)
Comparative and functional analyses of microbial genomes.
- 1- Poste MCF 67 0909, 2010**, (Chaire CNRS insectes-agroécologie Tours Univ., France)

Research project

In progress:

- 30- SYMBIOCHIP, 2020-2022, Aquatic Symbiosis Model System call, MOORE Foundation (Principal Investigator)**
Development of Lab-on -Chip device and workflow to study plankton photosymbioses
- 29- FeDRE, 2019-2021, AO LEFE, CNRS-INSU (Collaborator)**
Re-evaluation of the role of heterotrophic bacteria and iron-limited diatoms and cyanobacteria in the oceanic DMS cycle through DMSO reduction
- 28- MixITiN, 2018-2021, H2020 MSCA ITN call (Collaborator)**
Bringing the paradigm for marine pelagic production into the 21st century: incorporating mixotrophy into mainstream marine research.
- 27- ASSEMBLE+, 2017-2020, H2020 INFRAIA call (Collaborator)**
Association of European Marine Biological Laboratories Expanded.
- 26- IMPEKAB, 2016-2019, ANR general call (Principal Investigator)**

Impact of environmental change on planktonic photosymbioses.

25- PHYTOPOL, 2016-2019, ANR general call (Collaborator)

Adaptation of phytoplankton to polar region: Survival strategies during Arctic winter.

24- HAPAR, 2015-2019, ANR general call (Collaborator)

The paradox of being a specialist for a parasite of marine blooming dinoflagellates.

past:

23- CATALYST, 2016-2019, New-Zealand National call (Collaborator)

Establishing plankton biodiversity and structure in the NZ EEZ using novel DNA metabarcoding techniques.

22- SEAgOInG, 2018-2019, Defi X-Life Mission Interdisciplinarité CNRS (Collaborator)

Etude des symbioses du plancton marin par le couplage d'approches *omics* et imagerie haute résolution

21- FunOmics, 2016-2017, CNRS INSU-LEFE/EC2CO call (Collaborator)

Assessing functional diversity of plankton communities from high-throughput –omics data.

20- MicroB3, 2012-2016, EU-FP7 call (Collaborator)

Biodiversity, Bioinformatics, Biotechnology

19- MaCuMBA, 2012-2016, EU-FP7 call (Collaborator)

Marine Microorganisms: Cultivation Methods for Improving their Biotechnological Applications,

18- SESYMPA, 2014-2015, CNRS PEPS-ExoMod call (Principal Investigator)

Identification and characterization of biological mechanisms involve in the specificity of plankton symbioses.

17- DESIRS, 2012-2015, EMERGENCE-UPMC call (Principal Investigator)

Diversity and ecological significance of Radiolarian Symbiosis.

16- SEASTARS, 2013-2015, National Swiss fund call (Principal Investigator)

Studying the establishment of symbiotic associations in Radiolaria.

15- SYMBIOX, 2013-2014, Brittany region call (Principal Investigator)

Dimethyl sulfur and its derivatives as anti-oxidant in marine photosymbiosis. Physio-molecular basis and ecological significance.

14- SYMBIOCEANS, 2014-2015, PERSU Sorbonne University call (Principal Investigator)

Functioning of symbiosis in oceanic plankton.

13- JST-CNRS, 2011-2014, Strategic Japan-France Cooperative Program (co-Principal Investigator)

Morpho-molecular diversity assessment of ecologically, evolutionary, and geologically relevant marine plankton (Radiolaria).

12- Tara Oceans Expedition, 2009-2012+, (Collaborator and co-Principal Investigator for operational biological oceanography and sampling)

Biodiversity of marine plankton (from viruses to fish larvae) around the globe.

11- POSEIDON, 2009-2012, ANR general call (Collaborator)

Diversity of Protists in the oceans.

10- BIOMARKS, 2009-2012, EU Biodiversa call (Collaborator)

Biodiversity of Marine Eukaryotes.

9- PROMETHEUS, 2009-2011, ANR general call (Collaborator)

Diversity of Protists in the oceans.

8- EGIDE, 2009-2010, PHC Alliance Research Ministry call (co-Principal Investigator)

Tracking the diversity and abundance of phototrophic life in the oceans

7- SYMFORAD, 2009-2010, Brittany Region call (Principal Investigator)

Symbiosis of Foraminifera and Radiolarians.

6- MICROBIAL GENOME PROGRAM, 2006 – 2008, G&B Moore foundation USA (Collaborator)

Genome sequencing and annotation of two species of the green algae *Micromonas pusilla*.

5- ESTRAMAR, 2006-2009, Spanish government call (Collaborator)

Diversidad y ecología de un nuevo grupo de eucariotes marinos: los nuevos estramenópilos

4- CANARAD, 2007, Spanish government call (Principal Investigator)

Radiolarios del picoplancton en las Islas Canarias.

3- ESUMAST, 2006-2007, MSCA-IF, EU (Principal Investigator)

Ecological Significance of Uncultured Marine Stramenopiles.

2- PICODIV, 2000-2003, EU-FP6 call (Collaborator)

Monitoring the diversity of photosynthetic picoplankton in marine waters.

1- PICMANCH, 2000- 2003, Brittany Region call (Collaborator)

Investigation of the coastal picoplancton diversity with molecular tools.

Teaching, education and public outreach

Teaching:

- 2017 - ... yearly lecture on marine plankton for elementary and high school teacher. Workshop DAAC CSTI Oceanopolis/Brittany region rectorat.
- 2014 - ..., lecture and practical (15h) on the topic of symbiotic interactions in the plankton within the frame of Master II Oceanography and marine environments of UPMC.
- Participation to international summer schools:
 - * UPMC-Daniel Jouvance « marine genomics » 2013, Aerial do Cabo, Brazil
 - * UPMC-FAPERJ « Marine phytoplankton: from cultures to genomes » 2014, Macaé, Brazil
 - * GDRI-CNRS « New challenges for research in biodiversity and ecology of micro- and macro-algae » 2015, Las Cruces, Chile.

Outreach:

- 2020 Participation à l'émission TV "C'est toujours pas sorcier" sur le milieu marin.
- 2019 invited by the CNRS to contribute to the PIXII festival at the Sunny Side of the Doc international meeting at la Rochelle
- 2018 + - ... Annual festival of scientific cinema « Le pourquoi du Comment » in Roscoff (Coordinator)
- PlanktoMania, 2015-2018+, (Coordinator): Augmented and virtual reality technologies to communicate on plankton and marine environments topics. CNRS stand at the Science week in 2017. Immersive film selected at the international Festival PariScience in 2017. Participation to the Immersion Science initiative from CNRS. Selected ComLab project by CNRS Dir. Com. for 2018.
- 2018 Invited contribution to the 3rd national NIMS-Forum (new initiative for scientific outreach) organized by CNRS in Toulouse.
- Invited conferences:
 - * 2016 *Le plancton marin*. Espace des sciences. Morlaix, France.
 - * 2016 *Le plancton marin*. Océanopolis. Brest, France.
 - * 2016 *Le plancton*. Pint of Science Festival. Brest, France.
 - * 2015 *La diversité du plancton*. Association Bretagne Vivante. Morlaix, France.
 - * 2014 *La biodiversité marine: Terra incognita*. Les journées de l'Académie des Sciences en Bretagne. Roscoff, France.
 - * 2014 *La place de la symbiose dans la Nature*. Association Art et Culture. Roscoff, France.
 - * 2010 *The Tara Ocean expedition*. King Abdullah University of Science and Technology KAUST, Saudi Arabia.
 - * 2008 *Les micro-algues marines*. Centre de découvertes des algues Thalado. Roscoff, France
 - * 2005 *Dives into marine Sciences*. Royal Caribbean partnership with University of Miami. Miami, USA.
- Participation to the "jumelages parlementaires de l'académie des Sciences" in 2015.
<http://www.academie-sciences.fr/fr/Transmettre-les-connaissances/les-jumelages.html>
- Participation to the citizen science program "plankton portal" (<http://www.planktonportal.org>).
- Participation to the "XXII^{ème} rencontres CNRS jeunes Sciences et citoyens" in 2012 at the Futuroscope, Poitiers, France.
- Several participations to TV news, newspaper interviews and public debates within the frame of the Tara Oceans Expedition.

- Yearly participation to the national science week in local school.
- Participation to the Brest international maritime festival in 2000, 2012, 2016.
- Yearly participation to the “young reporter of arts and sciences” (Océanopolis and National Educ.).

Administration of research

Academic administration

- 2019 - ..., director of the research department UMR7144
- 2018, deputy director of the research department UMR7144.
- 2018. Elected member at the research council of Sorbonne University
- 2010- ..., member of the scientific coordination body of the European consortium EuroMarine+ (<http://www.euomarineconsortium.eu/euomarineplus>).
- 2009- ..., member of the coordinators of the Tara Ocean consortium.
- 2009-2013, designated member at the laboratory council of the UMR7144

Participation to prospective workshops and conference organization

- 2019, Not F., and Dal Grande, F., Ecology and evolution of algal symbiosis. 7th European Phycological Congress. Zagreb, Croatia. *Symposium organization.*
- 2019, RESOMAR Workshop on genomic observatories, Wimereux, France.
- 2018, Not, F., Leblanc, C., Dittami S. Marine Holobionts Foresight Workshop. EuroMarine & Sorbonne University. *Workshop organization.*
- 2017, CNRS INEE prospective. Animation of the “Branches méconnues du Vivant” workshop, Bordeaux, France. *Participation.*
- 2017, Not, F. and Decelle J. Single-cell ecophysiology to decipher functions in protists. 15th International Congress of Protistology. Prague, Czech Republic. *Symposium organization.*
- 2017, ResponSEABLE workshop. Building Ocean Literacy around coastal tourism and marine invasive species, Villefranche sur Mer, France. *Participation.*
- 2011-2012, WP3 of the EuroMarine project. *Participation*
- 2010, CNRS-INRA prospective on environmental genomics, Chizé, France. *Participation.*
- 2009, Worden A.Z. and F. Not. Linking ecology and diversity of aquatic protists: advances and methodologies. ASLO Aquatic Science Meeting, Nice, France. *Symposium organization.*
- 2007, Not, F., and von Dassow P. Comparative genomics and functional significance of the sexual phase in eukaryotic phytoplankton. Barcelona, Spain. *Workshop organization.*
- 2006, Worden A.Z. and F. Not. Linking ecology and diversity of aquatic protists: advances and methodologies. Ocean Science Meeting (ASLO & AGU), Hawaii, USA. *Symposium organization.*

Editorial responsibilities

Academic editor: PeerJ Environmental Sciences
Peer Community In “Ecology” recommender

Research publication review: Journal of Phycology, Limnology and Oceanography, PLoS ONE, Aquatic Microbial Ecology, Applied and Environmental Microbiology, ISME Journal, FEMS Microbiology Ecology, New Zealand Journal of Marine and Freshwater research, PNAS-USA, Marine Ecology Progress Series, Marine Biotechnology, Frontiers in Microbiology, Progress in Oceanography, New Phytologist, Protist, Zootaxa, Journal of Plankton Research, BMC biology.

Grant review: ERC Consolidator, FCT-Portugal, Swiss National Science Foundation, CNRS LEFE CYBER, US-Israel binational science foundation.

Scientific society membership

International Society for Microbial Ecology (ISME), American Society for Limnology and Oceanography (ASLO), International Symbiosis Society (ISS), International Society for Protistology (ISOP), International Association of Radiolarists (INTERRAD).

Field experience

- Research stay in coastal marine laboratories:
 - Villefranche sur Mer, France, 2007, 2009-2019
 - Sesoko, Japan, 2011
 - Naples, Italia, 2010
 - Akajima, Japan, 2010
 - Fukuoka, Japan, 2009
 - Rosenstiel School of Marine & Atmospheric Science (RSMAS), USA, 2009
 - Blanes, Spain, 2006

- Research cruise at sea
 - 2017-2020, MOOSE (Mediterranean Ocean Observing System on Environment). R/V Atalante
 - 2013, Radiolaria sampling off eastern Japan. R/V Oshoro-Maru
 - 2009-2012, *Tara* Ocean Expedition, Med. and Red seas, Indian and Pacific Oceans. R/V Tara
 - 2010, Plankton sampling in the black sea, Varna, Bulgarie. R/V Akademik
 - 2005, Series of cruises across the Florida Strait. R/V Walton Smith
 - 2003, Plankton sampling across Indian Ocean (Cape town to Port Hedland). RV Melville
 - 2002, Picoeucaryotes in the Arctic Ocean. R/V Johan Jhort
 - 2000-2004, Bi-monthly sampling off Roscoff. R/V Mysis

Honors and awards

- 2015, CNRS award for scientific excellence (PEDR)
- 2007, Young researcher prize from the Brittany region
- 2005, Post-doctoral individual Marie Curie fellowship (MSCA-IF).
- 2004, Best poster prize at the « Gordon Research Conference on marine microbes».
- 2000, PhD Individual fellowship from the French higher education ministry.
- 2000, City of Valauris award for Master studies.