

# Daniel Vaultot - CV

August 17, 2023



*Antarctica - January 2015*

Birth	22/08/1953 in Paris (France).
Current position	Directeur de Recherche Emérite (Senior Scientist) Centre National de la Recherche Scientifique (CNRS)
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## Education

- 1985 Doctor of Philosophy: Massachusetts Institute of Technology - Woods Hole Oceanographic Institution Joint Program in Oceanography (Advisor: Professor S.W. Chisholm, MIT).
- 1977 Ingénieur Civil de l'Ecole Nationale du Génie Rural et des Eaux et Forêts. Paris.
- 1975 Ingénieur de l'Ecole Polytechnique. Paris.

## Professional training

- 2010 Certificat d'Aptitude Hyperbare classe IB (Professional diver qualification).  
Chef de Plongée Scientifique CNRS.

## Positions

### Positions occupied

- Since Oct. 2019 Directeur de Recherche Emérite (Emeritus Scientist),  
Centre National de la Recherche Scientifique (CNRS), France.
- Nov. 2018 - Nov. 2022 Visiting Professor, Asian School of Environment, Nanyang Technological  
University, Singapore.
- Jan. 2019 - Oct. 2019 Directeur de Recherche de Classe Exceptionnelle - 2<sup>e</sup> échelon (Senior Sci-  
entist), Centre National de la Recherche Scientifique (CNRS), France.
- Jan. 2012 - Jan. 2019 Directeur de Recherche de Classe Exceptionnelle - 1<sup>er</sup> échelon,  
Centre National de la Recherche Scientifique (CNRS), France.
- Oct. 2001 - Jan. 2012 Directeur de Recherche de 1<sup>e</sup> classe au CNRS.
- Oct. 1994 - Oct. 2001 Directeur de Recherche de 2<sup>e</sup> classe au CNRS.
- Sep. 1982 - Sep. 1994 Chargé de Recherche au CNRS.
- Jun. 1981 - Jan. 1985 Research assistant at the Massachusetts Institute of Technology (Civil  
Engineering Department), Cambridge USA.
- Sep. 1977 - May 1981 Engineer then Manager at AQUASCOP (Montpellier, France), consult-  
ing company specialized in aquatic environments.

### International mobility

- Nov. 2018 - Nov. 2022 Visiting Professor at Nanyang Technological University, Singapore
- Feb. 2018 - Mar. 2018 Visiting Scientist at U. Mayor, Santiago, Chile
- Apr. 2008 - Jun. 2008 Visiting Scientist at NIES, Tsukuba Japan
- Jan. 1998 - Aug. 1998 Visiting Scientist at the Department of Plant Biology, Carnegie Institu-  
tion of Washington, Stanford USA.
- Jan. 1990 - Jan. 1991 Associate Professor, Department of Oceanography, University of Hawaii,  
Honolulu HI 96822 USA.

### Academic and Research responsibilities

- Since 1998 Scientific Director of the Roscoff Culture Collection
- 2000-2012 Team Leader "Diversity of Oceanic Plankton" UMR 7144, Station Biologique de  
Roscoff.

## Recognition and Service

### Awards and Honors

- 2014 Membership to **EMBO** (European Molecular Biology Organization)
- 2003 Médaille de l'Institut Océanographique, Monaco
- 2001 Prix Tregouboff de l'Académie des Sciences (Paris)
- 1996 **Médaille d'Argent** (Silver Medal) du Centre National de la Recherche Scientifique  
(France)
- 1988 **Médaille de Bronze** (Bronze Medal) du Centre National de la Recherche Scien-  
tifique (France)
- 1983-1985 Whitaker Fellowship

## Editorial work

2020-2023	Senior editor of The ISME Journal
2018-2022	Editorial board of Scientific Reports
2018-2020	Editorial board of The ISME Journal
2006-2017	Editor for Aquatic Microbial Ecology
2006-2013	Associate Editor for the Journal of Phycology
2010-2015	Review editor for Frontiers in Extreme Microbiology
2005-2009	Member of Faculty 1000 (Ecosystem Ecology Section)
1996-2006	Editorial Advisor of Aquatic Microbial Ecology
1996-1999	Editorial Board of the Journal of Phycology

## Boards and Panel Membership

2004-2005	Committee of Marine Microbe Genome Initiative of the Moore Foundation
2005	Member of the Open ocean and coastal systems working group of the International Census of Marine Microbes
2005-2008	Comité Scientifique du programme CNRS LEFE-CYBER
2002-2003	Comité scientifique ATIPE Microbiology CNRS
1999-2003	Conseil National des Universités, 68e section Biologie des Organismes
1998-2000	Comité Scientifique du Programme PROOF (ex JGOFS)
1996-1997	Comité Scientifique du Programme National d'Océanographie Cotière (PNOC).
1991-1995	Biogéochimie group of the Commission Spécialisée Océan Atmosphère of CNRS-INSU.
1991-1995	Comité Océanographie Physique, Chimique et Biologique of IFREMER.
1989-1993	Advisory Committee of the J.J. MacIsaac Flow Cytometry Facility (Bigelow Laboratory, USA)

## Teaching

### Courses organized

2023	Co-organizer - ASIAME3 (South Asia Workshop in Aquatic Microbial Ecology) in Vietnam - 10 days - June 2023
2019	Co-organizer - APC12 (Advanced Phytoplankton Course sponsored by IOC), Station Biologique de Roscoff - 3 weeks - May 2019
2017	Co-organizer - ASIAME2 (South Asia Workshop in Aquatic Microbial Ecology) in Andaman Islands, India - 15 days - November 2017
2015-2017	Organizing Committee - Marine Ecological and Evolutionary Genomics, Roscoff, June 2015
2014	Organizer - International Phytoplankton course, Macaé, Brasil (2 weeks) - December 2014
2013	Co-organizer - ASIAME1 (First South East Asia Workshop in Aquatic Microbial Ecology) in Vietnam, Nha Trang- 10 days - October 2013
2013	Co-organizer - UPMC Daniel-Jouvance School in Marine-Biology - Arraial do Cabo, Brasil - March 2013

### Courses taught

2023	Evolution and diversity of Protists, R for microbial ecology (lectures and practical session: 12 h), ASIAME 3, South East Asia Workshop in Aquatic Microbial Ecology, Vietnam.
2023	Protist diversity, Introduction to R, Metabarcoding analysis - ECODIM - Ecology and Diversity of Marine Microorganisms, coordinated by Osvaldo Ulloa (University of Concepción, Chile)- 12 h.
2022	Diversity and distribution of eukaryotic microbes in marine systems using metabarcoding, UNPAD Summer Program 2022, Padjadjaran University, Indonesia.

2021-2022	ES2304/ES7027: Microbes on Natural Ecosystems (coordinated by A. Lopes dos Santos), ASE, Nanyang Technological University (Singapore): 3 sessions on R programming and metabarcoding, help to students, evaluation of graduate student projects.
2019-2022	ES7023 & ES0002: Fundamentals of Data Science for Earth and Environmental Systems Science (coordinated by D. Lallemant), ASE, Nanyang Technological University (Singapore): 6 sessions on R programming, help to students, evaluation of graduate student projects.
2021	ES3305/ES7022: Currents Issues in Ecology (coordinated by D. Wardle), ASE, Nanyang Technological University (Singapore): 2 sessions on Scales in Plankton Ecology.
2020	ES3307: Experimental Design and Analysis (coordinated by E. Slade), ASE, Nanyang Technological University (Singapore): 2 sessions on R programming and 2 sessions on Scales in Marine Ecosystems.
2018	Metabarcoding data analysis workshop (5 days), NIWA, Wellington, New Zealand.
2018	Using phyloseq for metabarcoding data analysis (practical session: 6 h), Formation metabarcoding, Roscoff.
2017	R for microbial ecology (practical session: 4 h), ASIAME 2, South Asia Workshop in Aquatic Microbial Ecology, India.
2012 - 2017	Metagenomics of marine microbes (lectures: 6 h, practical session: 4 h), Marine Ecological and Evolutionary Genomics, Roscoff.
2006 - 2018	Eukaryotic picoplankton, Introduction to R and to metabarcoding processing (lectures: 6-10 h, practical session: 8 h). ECODIM workshop (South America post graduate course), University of Concepcion, Chile (takes place every two years).
2012	Introduction to flow cytometry (lectures: 3 h, practical session: 6 h). Oceanography Institute, Universidade de São Paulo, May 2012.
2009	Microbial Food Webs, Marine Metagenomics (9 h). Do Son School on Marine Biore-sources, organized by CNRS in Vietnam.
2006-2008	Picoplankton Eucaryote (3 h). Mastère de Microbiologie, Université de Bretagne Occidentale, Brest.
2000-2005	Picoplankton Module (one week). Diplôme d'études Approfondies (DEA) d'Océanographie. Université de Paris VI.
1999	Introduction to picoplankton. Diplôme d'études Approfondies (DEA) d'Océanographie. Université de Paris VI.
1994	Picoplankton ecology. Diplôme d'études Approfondies (DEA) d'Océanographie. Université de Paris VI.
1990	Flow cytometry in oceanography. Graduate lecture, University of Hawaii.
1990	Introduction to flow cytometry. Magistère de Biologie Roscoff.
1988-1989	Oceanic Picoplankton. Phycology short course. Roscoff.
1988-1989	Cell Biology Methods for Oceanography. Diplôme d'études Approfondies (DEA) d'Océanographie. Université de Paris VI.

## Academic and Research supervision

Post-docs	<b>18</b>
PhD students	<b>10</b>
Master students	<b>14</b>

## Post docs - supervision

2018	Margot Tragin
2016-2018	Catherine Ribeiro-Gerikas
2016-2018	Valeria Jimenez
2012-2017	Adriana Lopes dos Santos
2009-2012	Sergio Balzano

2008-2009	Shuhe Ota
2008-2009	Cécile Lepère
2006-2008	Xiaoli Shi
2006-2008	Fabien Jouenne
2005	Aude Houdan (co-directed with N. Simon)
2002-2004	Francisco Rodriguez (co-directed with L. Guillou)
2002-2003	Fei Zhu
2002-2003	Agnès Groisillier
2000-2002	Khadidja Romari, Université de Montpellier
1997-1999	Michael Rappé, Oregon State University
1996-1997	Seung-Yeo Moon, University of Seoul
1991	Raffella Casotti, visiting researcher
1987	Ning Xiu Ren, visiting scientist from China.

### PhD Students - supervision

2014-2017	Margot Tragin, Université de Pierre et Marie Curie
2014-2015	Catherine Ribeiro-Gérikas, Universidade de São Paulo (co-supervision with F. Brandini)
2005-2009	Sylvie Masquelier, Université de Paris 6
2004-2007	Manon Viprey, Université de Paris 6
2000-2004	Fabrice Not, Université de Paris 6 (co-supervision with N. Simon)
1999-2003	Isabelle Mary, Université de Rennes
1996-1999	Stéphan Jacquet, Université de Paris 6
1995-1998	Laure Guillou, Université de Paris 6
1991-1995	Nathalie Simon, Université de Paris 6
1986-1988	Frédéric Partensky, Université de Paris 6

### PhD Students - committee or jury

2023-2025	Margaux Crédeville, Université Paris-Saclay, PhD committee
2020-2023	Clarence Sim, NTU ASE, Singapore, PhD (TAC) committee
2022	Javier Alegria, Linneus University, Kalmar, Sweden, PhD jury
2021	Zhou Yongly, NTU ASE, Singapore, PhD jury
2021	Ina Jungersen Andresen, University of Oslo, PhD jury
2018-2021	Mia Cerfontey, University of Iceland, PhD committee
2018-2021	Mariela Guajardo, Universidad Mayor, Chile, PhD committee
2014-2018	Solenn Mordret, Stazione Zoologica di Napoli, Italy, PhD committee
2013-2017	Thomas Vannier, Genoscope, France, PhD committee
2016	Shruti Malviya, Université de Paris Sud, France, PhD jury

### Master and Undergraduate Students

2021	David Mah, NTU ASE, Singapore, Final year project (co-supervision with A. Lopes dos Santos)
2014	Christian Castro Romero, Université de Bretagne Occidentale, Master 2
2014	Thibaut Pollina, Ecole Pratique des Hautes Études, Master 1
2011	Frédéric Gaboyer, Université de Paris-Sud, Master 2
2004	Manon Viprey, Université de Paris 6 DEA
2002	Bastien Simonnet, Université de Marseille DEA
2001	Alexis Dufresne, Université de Rennes DEA (co-direction with F. Partensky)
2000	Héloïse Felman, Université de Paris 6 DEA
1999	Isabelle Mary, Université de Rennes DEA
1996	Stéphan Jacquet, Université de Paris 6 DEA
1995	Laure Guillou, Université de Paris 6 DEA

1994	Mario Acquarone, University of Milano Master
1994	Julie Parpais, Université de Paris 6 DEA
1991	Valérie Cariou, Université de Paris 6 DEA
1989	Nicolas Boucher, Université de Paris 6 DEA

## Current Collaborators

- Javier del Campo, University of Miami, USA
- Bente Edvardsen, Wenche Eikrem, University of Oslo, Norway
- Nicole Trefault, Universidad Mayor, Santiago, Chile
- Adriana Lopes dos Santos, Nanyang Technological University, Singapore

## Research projects

### Coordination

#### International

2017-2019	MicrAntar (ECCOS-Chili)
2015-2018	PicoBras (COFECUB, CAPES France- Brazil)
2009-2011	PHYTOMETAGENE : Japan-France cooperative research
2007-2009	PICOFUNPAC : ANR Biodiversité
2003-2006	PICOCEAN : GIS Génomique Marine
2000-2003	PICODIV : European RTD project (FP5)
2000-2003	Programme NSF-CNRS avec l'Université de Stanford
1998	NATO fellowship (A. Grossman, Carnegie Stanford)

#### National

2017-2018	ArcPhyt (Région Bretagne)
2006-2012	Souchothèque de Bretagne
2009-2010	MetaPico (Genoscope)
1995-1996	France JGOFS - Molecular Biology initiative

## Participation

#### International

2017-2020	TaxMArc (Norway)
2017-2019	Catalyst (New Zealand)
2015-2017	Green Edge (ANR) - Cooperation with Canada
2014-2015	MicroPolar (Norvège)
2013-2017	GDRI Algues (CNRS) - Cooperation with Brasil and Chile
2012-2015	Macumba (EU FP7) - Workpackage leader
2012-2015	MicroB3 (EU FP7)
2009-2011	MALINA (ANR) - Cooperation with Canada
2007-2013	Plankton*Net (EU FP7)
1998-2000	PROMOLEC (EU MAST III, resp. F. Partensky)
1997-1999	Interactions between bacteria and dinoflagellates (EU FAIR)
1996-1998	MEDEA (EU MAST III)
1994-1997	Human Capital and Mobility (EU)
1993-1994	MEDIPELAGOS (Coordinator F.Rassoulzadegan, EEC MAST II)
1992-1994	JGOFS US, Equatorial Pacific
1990	JGOFS US, Hawaii Ocean Time Series
1988-1994	EROS 2000 (EEC STEP)
1988-1992	Phaeocystis pouchetii (EEC)
1986-1987	Donghai (France-Chine)

**National**

2020-2024	PhenoMap (ANR)
2015-2021	PhytoPol (ANR)
2002-2004	Collection Interrégionale de Micro-organismes (Centres de Ressources Biologiques)
2002-2005	BIOSCOPE (PROOF, CNRS)
2001-2006	GénoMer (Plan Etat-Région)
2001-2006	Souchothèque de Bretagne (Plan Etat-Région)
2000-2001	Séquençage du génome de <i>Prochlorococcus</i> SS120 (Genoscope, resp. F. Partensky)
2000-2003	PICOMANCHE. Programme d'intérêt régional (resp. N. Simon)
2000-2001	Fonds de recherche CNRS - Aventis
1994-1995	Action spécifique "Sciences de l'Univers"
1994	JGOFS France, EPOPE
1992-1996	GDR Production des Systèmes Océaniques Oligotrophes
1991-1992	JGOFS France (EUMELI)
1986-1989	Efflorescences



## Cruises and Field Work

May 2016	Green Edge Ice Camp, Arctic, Qikiqtarjuaq (Nunavut, Canada)
Jan. 2015	Field work at Escudero Chilean Station (King George Island, Antarctica)
Aug. 2009	CCGS Amundsen, Beaufort Sea (MALINA)
Oct. 2004	NO Atalante: South Pacific from Tahiti to Easter Island (BIOSOPE)
June 1996	N/O Suroît : Mediterranean Sea (MINOS)
Nov. 1994	NO Atalante: Equatorial Pacific (OLIPAC)
Dec. 1988	RRS Discovery : North-West Mediterranean (EROS 2000).
Sept. 1987	N/O Suroît : Sargasso Sea from Martinique to Bermuda (CHLOMAX).
July 1986	Xiang Yang Hong 9 : East China Sea and Yangtse river (DONGHAI).
Jan. 1986	Xiang Yang Hong 9 : East China Sea and Yangtse river (DONGHAI).
May 1984	R/V Iselin : Sargasso Sea.

## Publications

### Summary

Total number of articles published in international peer-reviewed journals : **168**

**Google Scholar**      Total number of citations : **27,263**  
H Factor : **84**

Journal <sup>a</sup>	IF (5 years)	Papers
Journal of Phycology	3.1	18
Applied and Environmental Microbiology	4.3	10
Limnology and Oceanography	4.0	10
<b>The ISME Journal</b>	<b>11.7</b>	7
Scientific Reports	4.6	8
Aquatic Microbial Ecology	2.2	6
Marine Ecology Progress Series	2.7	6
Protist	3.2	6
Environmental Microbiology	5.5	5
FEMS Microbiology Ecology	4.2	5
Molecular Ecology Resources	8.7	4
Journal of Plankton Research	2.2	4
Biogeosciences	4.4	4
Journal of Geophysical Research Oceans	3.2	4
PLoS One	3.4	4
<b>Nature</b>	<b>45.0</b>	1
<b>Science</b>	<b>40.6</b>	3
<b>Microbiology and Molecular Biology Reviews</b>	<b>17.5</b>	1
<b>Nature Ecology and Evolution</b>	<b>15.5</b>	1
<b>FEMS Microbiology Reviews</b>	<b>14.9</b>	1
<b>PNAS USA</b>	<b>10.3</b>	1
<b>Nucleic Acid Research</b>	<b>10.2</b>	1

<sup>a</sup>Journals with more than 4 papers or with avec IF > 10 (bold) are considered

### Ten selected publications

- 2022    Jamy, M., Biwer, C., **Vaultot, D.**, Obiol, A., Jing, H., Peura, S., Massana, R. et al. Global patterns and rates of habitat transitions across the eukaryotic tree of life. **Nature Ecology and Evolution**. DOI: <https://doi.org/10.1038/s41559-022-01838-4>
- 2022    **Vaultot, D.**, Sim, C.W.H., Ong, D., Teo, B., Biwer, C., Jamy, M., Lopes dos Santos, A. MetaPR<sup>2</sup>: a database of eukaryotic 18S rRNA metabarcodes with an emphasis on protists. **Molecular Ecology Resources**. DOI: <https://doi.org/10.1111/1755-0998.13674>
- 2018    G rikas Ribeiro, C., Lopes dos Santos, A., Marie, D., Brandini, P., **Vaultot, D.** Small eukaryotic phytoplankton communities off Brazil are dominated by symbioses between Haptophyta and nitrogen-fixing cyanobacteria. **ISME J.** 12:1360-1374.
- 2017    Lopes dos Santos, A., Polina, T., Gourvil, P., Corre, E., Marie, D., No l, M.-H., ... **Vaultot D.** Chloropicophyceae, new class of picoplanktonic prasinophytes. **Sci. Rep.** 7:14019.
- 2012    Thompson A.W., Foster R.A., Krupke A., Carter B.J., Musat N., **Vaultot D.**, Kuypers M.M.M., Zehr J.P. Unicellular cyanobacterium symbiotic with a single-celled eukaryotic alga. **Science**: 337, 1546-1550.
- 2008    **Vaultot D.**, Eikrem W., Viprey M., Moreau H. The diversity of small eukaryotic phytoplankton (<3 µm) in marine ecosystems. **FEMS Microbiology Reviews**: 32, 795-820.
- 2007    Not F., Valentin K., Romari K., Lovejoy C., Massana R., T be K., **Vaultot D.**, Medlin L.K. Picobiliphytes, a new marine picoplanktonic algal group with unknown affinities to other eukaryotes. **Science**: 315, 252-254.

- 2001 Moon-van der Staay S.Y., De Wachter R., **Vaultot D.** Oceanic 18S rDNA sequences from picoplankton reveal unsuspected eukaryotic diversity. **Nature**: 409, 607-610.
- 1999 Partensky F., Hess W.R., **Vaultot D.** *Prochlorococcus*, a marine photosynthetic prokaryote of global significance. **Microbiology and Molecular Biology Reviews**: 63, 106-127.
- 1995 **Vaultot D.**, Marie D., Olson R.J., Chisholm S.W. Growth of *Prochlorococcus* a photosynthetic prokaryote, in the equatorial Pacific Ocean. **Science**: 268, 1480-1482.

### Publications in refereed journals

- 168-2023 Cerfonteyn, M., Groben, R., **Vaultot, D.**, Gumundsson, K., Vannier, P., Pérez-Hernández, M.D. and Marteinson, V.. The distribution and diversity of eukaryotic phytoplankton in the Icelandic marine environment. Scientific Reports. 13:8519. <https://doi.org/10.1038/s41598-023-35537-2>
- 167-2022 Bruyant, F., Amiraux, R., Amyot, M.-P., Archambault, P., Artigue, L., ..., **Vaultot, D.**, Vladioiu, A., Xue, L., Yunda-Guarin, G., Babin, M. The Green Edge cruise: investigating the marginal ice zone processes during late spring and early summer to understand the fate of the Arctic phytoplankton bloom. Earth System Science Data 14: 4607-4642. <https://doi.org/10.5194/essd-14-4607-2022>
- 166-2022 **Vaultot, D.**, Sim, C.W.H., Ong, D., Teo, B., Biwer, C., Jamy, M., Lopes dos Santos, A. MetaPR<sup>2</sup>: a database of eukaryotic 18S rRNA metabarcodes with an emphasis on protists. Molecular Ecology Resources 22:3188-3201. DOI: <https://doi.org/10.1111/1755-0998.13674>
- 165-2022 Šupraha, L., Klemm, K., Gran-Stadniczeňko, S., **Vaultot, D.**, John, U., Edvardsen, B., Diversity and biogeography of planktonic diatoms in Svalbard fjords: the role of dispersal and Arctic endemism in phytoplankton community structuring. Elementa: Science of the Anthropocene, 10:00177. DOI: <https://doi.org/10.1525/elementa.2021.00117>.
- 164-2022 Jamy, M., Biwer, C., **Vaultot, D.**, Obiol, A., Jing, H., Peura, S., Massana, R. et al. Global patterns and rates of habitat transitions across the eukaryotic tree of life. Nature Ecology and Evolution 6:1458–1470. DOI: <https://doi.org/10.1038/s41559-022-01838-4>
- 163-2021 Egge, E., Elferink, S., **Vaultot, D.**, John, U., Bratbak, G., Larsen, A., & Edvardsen, B. An 18S V4 rDNA metabarcoding dataset of protist diversity in the Atlantic inflow to the Arctic Ocean, through the year and down to 1000 m depth. Earth System Science Data, 13:4913-4928. DOI: 10.5194/essd-13-4913-2021
- 162-2021 Magalhães, K., **Vaultot D.** and de Oliveira, M.C. *Hemiselmis aquamarina* sp. nov. (Cryptomonadales, Cryptophyceae), a cryptomonad with a novel phycobiliprotein type (Cr-PC 564). Protist 57:435-446.
- 161-2021 **Vaultot D.**, Geisen S., Mahé F., Bass D. pr2-primer: an 18S rRNA primer database for protists. Molecular Ecology Resources 22:168-179. DOI: 10.1111/1755-0998.13465.
- 160-2021 Massicotte, P., Amon, R. M. W., Antoine, D., Archambault, P., Balzano, S., ... **Vaultot, D.** ... Babin, M. (2021). The MALINA oceanographic expedition: How do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean? Earth System Science Data, 13:1561–1592. DOI: 10.5194/essd-13-1561-2021
- 159-2021 Trefault, N., De la Iglesia, R., Moreno-Pino, M., Lopes dos Santos, A., Gérikas Ribeiro, C., Parada-Pozo, G., Cristi, A., Marie, D., and **Vaultot, D.**. Annual phytoplankton dynamics in coastal waters from Fildes Bay, Western Antarctic Peninsula. Scientific Reports, 11, 1368. DOI: 10.1038/s41598-020-80568-8.
- 158-2021 Jimenez V., Le Gall F., Burns J., Not F., **Vaultot D.** No evidence of phago-mixotrophy in *Micromonas polaris*, the dominant picophytoplankton species in the Arctic. Journal of Phycology 57:435-446. DOI: 10.1111/jpy.13125.
- 157-2020 Gérikas Ribeiro C., Lopes dos Santos A., Probert I., **Vaultot D.**, Edvardsen B. Taxonomic reassignment of *Pseudohaptolina birgeri* comb. nov. (Haptophyta). Phycologia 59:606-615. DOI: 10.1080/00318884.2020.1830255.

- 156-2020 Saint-Béat B., Fath B.D., Aubry C., Colombet J., Dinasquet J., Fortier L., Galindo V., Grondin P.-L., Joux F., Lalande C., LeBlanc M., Raimbault P., Sime-Ngando T., Tremblay J.-E., **Vaultot D.**, Maps F., Babin M. Contrasting pelagic ecosystem functioning in eastern and western Baffin Bay revealed by trophic network modelling. *Elementa: Science of the Anthropocene*, 8. DOI: 10.1525/elementa.397.
- 155-2020 Gérikas Ribeiro C., Lopes dos Santos A., Marie D., Le Gall F., Probert I., Tragin M., Gourvil P., **Vaultot D.** Culturable diversity among the Arctic phytoplankton during the icepack melting process. *Elementa: Science of the Anthropocene*, 8. DOI: 10.1525/elementa.401.
- 154-2020 Massicotte P., Amiraux R., Amyot M.-P., Archambault P., . . . , **Vaultot D.**, Verin G., Vivier F., Vladioiu A., Whitehead J., Babin M. Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom. *Earth System Science Data*, 12:151-176. DOI: 10.5194/essd-12-151-2020.
- 153-2020 Yau S., Lopes dos Santos A., Eikrem W., Gérikas Ribeiro C., Gourvil P., Escande M.-L., Balzano S., Moreau H., **Vaultot D.** *Mantoniella beaufortii* and *Mantoniella baffinensis* sp. nov. (Mamiellales, Mamiellophyceae), two new green algal species from the high Arctic. *Journal of Phycology*, 56:37-51
- 152-2019 Chénard, C., Wijaya, W., **Vaultot D.**, Lopes dos Santos, A., Martin, P., Kaur, A., Lauro, F.M. Temporal and spatial dynamics of Bacteria, Archaea and protists in equatorial coastal waters. *Scientific Reports*, 9:16390.
- 151-2019 Tragin, M. and **Vaultot D.** Novel diversity within marine Mamiellophyceae (Chlorophyta) unveiled by metabarcoding. *Scientific Reports* 9:5190.
- 150-2019 Gutierrez-Rodriguez, A., Stukel, M.R., Lopes dos Santos, A., Biard, T., **Vaultot D.**, Landry, M.R., Not, F. High contribution of Rhizaria (Radiolaria) to vertical export in the California Current Ecosystem revealed by DNA metabarcoding. *ISME J.* 13:964-976.
- 149-2019 Lambert, S., Tragin, M., Lozano, J.-C., Ghiglione, J.-F., **Vaultot D.**, Bouget, F.-Y., Galand, P.E. Rhythmicity of coastal marine picoeukaryotes, bacteria and archaea despite irregular environmental perturbations. *ISME J.* 13:388-401.
- 148-2018 Kuwata, A., Yamada, K., Lopes dos Santos, A., Tragin, M., Ichinomiya, M., Yoshikawa, S., **Vaultot D.** Bolidophyceae, a sister picoplanktonic group of diatoms – A review. *Front. Mar. Sci.* 5:370.
- 147-2018 Tragin, M., **Vaultot D.** Green microalgae in marine coastal waters : The Ocean Sampling Day (OSD) dataset. *Scientific Reports* 8:14020.
- 146-2018 Stern, R., Kraberg, A., Bresnan, E., Kooistra, W.H.C.F., Lovejoy, C., Montresor, M., Morán, X.A.G. et al. Can molecular tools enhance long-term monitoring of marine protists? *J. Plankton Res.* fby035, <https://doi.org/10.1093/plankt/fby035>.
- 145-2018 Partensky, F., Six, C., Ratin, M., Garczarek, L., **Vaultot D.**, Grébert, T., Marie, D. et al. A novel species of the marine cyanobacterium *Acaryochloris* with a unique pigment content and lifestyle. *Sci. Rep.* 8:9142.
- 144-2018 Gérikas Ribeiro, C., Lopes dos Santos, A., Marie, D., Brandini, P., **Vaultot D.** Small eukaryotic phytoplankton communities off Brazil are dominated by symbioses between Haptophyta and nitrogen-fixing cyanobacteria. *ISME J.* 12:1360-1374.
- 143-2018 Mordret, S., Piredda, R., **Vaultot D.**, Montresor, M., Kooistra, W.H.C.F., Sarno, D. DinoREF: a curated dinoflagellate (Dinophyceae) reference database for the 18S rRNA gene. *Mol. Ecol. Resour.* 18: 974-987.
- 142-2018 Tragin, M., Zingone, A., **Vaultot D.** Comparison of coastal phytoplankton composition estimated from the V4 and V9 regions of 18S rRNA gene with a focus on photosynthetic groups and especially Chlorophyta. *Environ. Microbiol.* 20:506-520.
- 141-2017 Simon, N., Foulon, E., Grulois, D., Six, C., Latimier, M., Desdevises, Y., et al. Revision of the genus *Micromonas* (Manton et Parke) (Chlorophyta, Mamiellophyceae), of the type species *M. pusilla* (Butcher) Manton, Parke and of the species *M. commoda* (van Baren, Bachy and Worden) and description of two new species based on the genetic and phenotypic characterization of cultured isolates. *Protist.* 168:612-35.

- 140-2017 Lopes dos Santos, A., Polina, T., Gourvil, P., Corre, E., Marie, D., Noël, M.-H., ..., **Vaultot D.** Chloropicophyceae, new class of picoplanktonic prasinophytes. *Sci. Rep.* 7:14019.
- 139-2017 Lopes dos Santos, A., Gourvil, P., Tragin, M., Noël, M.-H., Decelle, J., Romac, S., **Vaultot D.** Diversity and oceanic distribution of prasinophytes clade VII, the dominant group of green algae in oceanic waters. *ISME J.* 11:512-28.
- 138-2017 Marie, D., Le Gall, F., Edern, R., Gourvil, P., **Vaultot D.** Improvement of phytoplankton culture isolation using single cell sorting by flow cytometry. *J. Phycol.* 53: 271-282
- 137-2017 Egas, C., Henríquez-Castillo, C., Delherbe, N., Molina, E., Dos Santos, A.L., Lavin, P., De La Iglesia, R. et al. Short timescale dynamics of phytoplankton in Fildes Bay, Antarctica. *Antarct. Sci.* 29: 217-228
- 136-2017 Balzano, S., Percopo, I., Siano, R., Gourvil, P., Chanoine, M., Marie, D., **Vaultot D.** et al. Morphological and genetic diversity of Beaufort Sea diatoms with high contributions from the *Chaetoceros neogracilis* species complex. *J. Phycol.* 53:161-87
- 135-2016 Gérikas Ribeiro, C., Marie, D., Lopes dos Santos, A., Pereira Brandini, F., **Vaultot D.** Estimating microbial populations by flow cytometry: Comparison between instruments. *Limnol. Oceanogr. Methods.* 14:750-8..
- 134-2016 Vannier, T., Leconte, J., Seeleuthner, Y., Mondy, S., Pelletier, E., Aury, J.-M., de Vargas, C. et al. Survey of the green picoalga *Bathycoccus* genomes in the global ocean. *Sci. Rep.* 6:37900.
- 133-2016 Gérikas Ribeiro, C., Lopes dos Santos, A., Marie, D., Helena Pellizari, V., Pereira Brandini, F., **Vaultot D.** Pico and nanoplankton abundance and carbon stocks along the Brazilian Bight. *PeerJ.* 4:e2587
- 132-2016 Forster, D., Dunthorn, M., Mahé, F., Dolan, J.R., Audic, S., Bass, D., Bittner, L. et al. Benthic protists: the under-charted majority. *FEMS Microbiol. Ecol.* 92:fiw120.
- 131-2016 Tragin, M., Lopes dos Santos, A., Christen, R., **Vaultot D.** Phylogenetic diversity and ecology of green micro algae in marine systems. *Perspectives in Phycology.* 3:141-54.
- 130-2016 Edvardsen, B., Egge, E.S., **Vaultot D.** Diversity and distribution of haptophytes revealed by environmental sequencing and metabarcoding - a review. *Perspectives in Phycology.* 3:77-91
- 129-2016 Percopo, I., Ruggiero, M.V., Balzano, S., Gourvil, P., Lundhölml, N., Siano, R., Tam-milehto, A., **Vaultot D.**, Sarno, D. *Pseudo-nitzschia arctica* sp. nov., a new cold-water cryptic *Pseudo-nitzschia* species within the *P. pseudodelicatissima* complex. *Journal of Phycology.* 52 : 184-199
- 128-2016 Lopes dos Santos, A., Gourvil, P., Rodriguez-Hernandez, F., Garrido, J.L., **Vaultot D.** Photosynthetic pigments of oceanic Chlorophyta belonging to prasinophytes clade VII. *Journal of Phycology.* 52 : 148-155
- 127-2016 Ichinomiya, M., Lopes dos Santos, A., Gourvil, P., Yoshikawa, S., Kamiya, M., Ohki, K., Audic, S., de Vargas, C., **Vaultot D.**, Kuwata, A. Diversity and oceanic distribution of the Parmales (Bolidophyceae), a picoplanktonic group closely related to diatoms. *ISME J.* 10:2419-34
- 126-2015 Decelle, J., Romac, S., Stern, R.F., Bendif, E.M., ..., **Vaultot D.**, de Vargas, C., Christen, R. PhytoREF: a reference database of the plastidial 16S rRNA gene of photosynthetic eukaryotes with curated taxonomy. *Molecular Ecology Resources.* 15: 1435-1445
- 125-2015 Massana, R., Gobet, A., Audic, S., Bass, D., ..., **Vaultot D.**, Zingone, A., de Vargas, C. Marine protist diversity in European coastal waters and sediments as revealed by high-throughput sequencing. *Environmental Microbiology.* 17: 4035-4049.
- 124-2015 Kopf, A., Bicak, M., Kottmann, R., Schnetzer, J., ..., **Vaultot D.**, ..., Davies, N., Field, D., Glöckner, F.O. The ocean sampling day consortium. *GigaScience.* 4
- 123-2014 Marie, D., Rigaut-Jalabert, F., **Vaultot D.** An improved protocol for flow cytometry analysis of phytoplankton cultures and natural samples. *Cytometry* 85: 962-968.

- 122-2014 Plominsky, A.M., Delherbe, N., Ugalde, . . . , **Vaultot D.**, Santos, A.L. dos, Engh, G. van den, Bertoglio, F., Delagdo, Y., Docmac, F., Elizondo-Patrone, C., Narváez, S., Sorroche, F., Rojas-Herrera, M.A., Trefault, N. Metagenome sequencing of the microbial community of a solar saltern crystallizer pond at Cahuil Lagoon, Chile. *Genome Announcements*. 2:e01172-14.
- 121-2014 Keeling P.J., Burki F., Wilcox H.M., Allam B., Allen E.E., . . . , **Vaultot D.**, Wawrik B., Wheeler G.L., Wilson W.H., Xu Y., Zingone A., Worden A.Z. The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. *PLoS Biology* 12, e1001889.
- 120-2013 Roux S., Enault F., Bronner G., **Vaultot D.**, Forterre P., Krupovic M. Chimeric viruses blur the borders between the major groups of eukaryotic single-stranded DNA viruses. *Nature Communications*: 4, doi:10.1038/ncomms3700
- 119-2013 Guilloux L., Rigaut-Jalabert F., Jouenne F., Ristori S., Viprey M., Not F., **Vaultot D.**, Simon N. An annotated checklist of Marine Phytoplankton taxa at the SOMLIT-Astan time series off Roscoff (Western Channel, France): data collected from 2000 to 2010. *Cahiers de Biologie Marine*: 54, 247-256.
- 118-2013 Guillou L., Bachar D., Audic S., Bass D., Berney C., Bittner L., Boutte C., Burgaud G., de Vargas C., Decelle J., del Campo J., Dolan J., Dunthorn M., Bente E., Holzmann M., Kooistra W.H.C.F., Lara E., Lebecot N., Logares R., Mahé F., Massana R., Montresor M., Morard R., Not F., Pawlowski J., Probert I., Sauvadet A.-L., Siano R., Stoeck T., **Vaultot D.**, Zimmermann P., Christen R. The Protist Ribosomal Reference database (PR2): a catalog of unicellular eukaryote Small SubUnit rRNA sequences with curated taxonomy. *Nucleic Acids Research*: 41, D597-D604.
- 117-2012 Balzano S., Gourvil P., Siano R., Chanoine M., Marie D., Lessard S., Sarno D., **Vaultot D.** Diversity of cultured photosynthetic flagellates in the North East Pacific and Arctic Oceans in summer. *Biogeosciences*: 9, 4553-4571.
- 116-2012 **Vaultot D.**, Lepère C., Toulza E., De la Iglesia R., Poulain J., Gaboyer F., Moreau H., Vandepoele K., Ulloa O., Gavory F., Piganeau G. Metagenomes of the picoalga *Bathycoccus* from the Chile coastal upwelling. *PLoS ONE*: 7, e39648.
- 115-2012 Thompson A.W., Foster R.A., Krupke A., Carter B.J., Musat N., **Vaultot D.**, Kuypers M.M.M., Zehr J.P. Unicellular cyanobacterium symbiotic with a single-celled eukaryotic alga. *Science*: 337, 1546-1550.
- 114-2012 Stern R.F., Andersen R.A., Jameson I., Küpper F.C., Coffroth M.-A., **Vaultot D.**, Gall F.L., Veron B., Brand J.J., Skelton H., Kasai F., Lilly E.L., Keeling P.J. Evaluating the ribosomal internal transcribed spacer (ITS) as a candidate dinoflagellate barcode marker. *PLoS ONE*: 7, e42780
- 113-2012 Buitenhuis E.T., Li W.K.W., **Vaultot D.**, Lomas M.W., Landry M., Partensky F., Karl D.M., Ulloa O., Campbell L., Jacquet S., Lantoine F., Chavez F., Macias D., Gosselin M., McManus G.B. Picophytoplankton biomass distribution in the global ocean. *Earth System Science Data Discussions*: 5, 221-242.
- 112-2012 Balzano S., Marie D., Gourvil P., **Vaultot D.** Summer photosynthetic eukaryotic communities in the Beaufort Sea assessed by T-RFLP from flow cytometry sorted sample. *ISME Journal* 6,1480-1498
- 111-2012 Ota S., **Vaultot D.** *Lotharella reticulosa* sp. nov.: A highly reticulated network forming Chlorarachniophyte from the Mediterranean Sea. *Protist* 163, 91-104.
- 110-2011 Masquelier S., Foulon E., Jouenne F., Brussaard C.P.D., **Vaultot D.** Distribution of eukaryotic plankton in the English Channel and the North Sea in summer. *Journal of Sea Research*: 66, 111-122.
- 109-2011 Shi X.L., Lepère C., Scanlan D.J., **Vaultot D.** Plastid 16S rRNA gene diversity among eukaryotic picophytoplankton sorted by flow cytometry from the South Pacific Ocean. *PLoS ONE*: 6, e18979.,

- 108-2011 Lepère C., Demura M., Kawachi M., Romac S., Probert I., **Vaultot D.** Whole Genome Amplification (WGA) of marine photosynthetic eukaryote populations. *FEMS Microbiology Ecology*: 76,516-523.
- 107-2011 Collado-Fabri S., Ulloa O., **Vaultot D.** Structure and seasonal dynamics of the eukaryotic picophytoplankton community in a wind-driven coastal upwelling ecosystem. *Limnology and Oceanography* 56:2334-46.
- 106-2011 Jouenne F., Eikrem W., Le Gall F., Johnsen G., **Vaultot D.** *Prasinoderma singularis* sp. nov., a solitary coccoid prasinophyte from the South East Pacific Ocean. *Protist*: 162:70-84,
- 105-2010 Jacquet S., Prieur L., Nival P., **Vaultot D.** Structure and variability of the microbial community associated to the Alboran Sea frontal system (Western Mediterranean) in winter. *Journal of Oceanography, Research and Data*: 3, 47-75.
- 104-2010 Man-Aharonovich D., Philosof A., Kirkup B.C., Le Gall F., Yogeve T., Berman-Frank I., Polz M.F., **Vaultot D.**, Béjà O. Diversity of active marine picoeukaryotes in the eastern Mediterranean Sea unveiled using photosystem-II psbA transcripts. *ISME Journal*: 4, 1044-1052.
- 103-2010 Marie D., Shi X.L., Rigaut Jalabert F., **Vaultot D.** Diversity of small photosynthetic eukaryotes in the English Channel from samples sorted by flow cytometry. *FEMS Microbiology Ecology*: 72:165-178.
- 102-2009 Lepère C., **Vaultot D.**, Scanlan D.J. Photosynthetic picoeukaryote community structure in the South East Pacific Ocean encompassing the most oligotrophic waters on Earth. *Environmental Microbiology*:11, 3105-3117.
- 101-2009 Shi X.L., Marie D., Jardillier L., Scanlan D.J., **Vaultot D.** Groups without cultured representatives dominate eukaryotic picophytoplankton in the oligotrophic South East Pacific Ocean. *PLoS ONE*: 4, e7657.
- 100-2009 Ota S., **Vaultot D.**, Le Gall F., Yabuki A., Ishida K. *Partenskyella glossopodia* gen. et sp. nov., the first report of chlorarachniophyte that lacks pyrenoid. *Protist*: 160, 137-150.
- 99 - 2008 Jouenne F., Probert I., **Vaultot D.** Plankton taxonomy in the computer age. *Cahiers de Biologie Marine*: 49, 355-367.
- 98 - 2008 Not F., Latasa M., Scharek R., Viprey M., Karleskind P., Balagué V., Ontoria I., Cumino A., Goetze E., **Vaultot D.**, Massana R. Protistan assemblages across the Indian Ocean, with a specific emphasis on the picoeukaryotes. *Deep - Sea Research Part I - Oceanographic Research Papers*: 55, 1456-1473.
- 97 - 2008 Claustre H., Sciandra A., **Vaultot D.** Introduction to the special section bio-optical and biogeochemical conditions in the South East Pacific in late 2004: the BIOSOPE program. *Biogeosciences*: 5, 679-691.
- 96 - 2008 **Vaultot D.**, Eikrem W., Viprey M., Moreau H. The diversity of small eukaryotic phytoplankton (<3  $\mu$ m) in marine ecosystems. *FEMS Microbiology Reviews*: 32, 795-820.
- 95 - 2008 Viprey M., Guillou L., Ferréol M., **Vaultot D.** Wide genetic diversity of picoplanktonic green algae (Chloroplastida) in the Mediterranean Sea uncovered by a phylum-biased PCR approach. *Environmental Microbiology*: 10, 1804-1822.
- 94 - 2008 Le Gall F., Rigaut-Jalabert F., Marie D., Garczareck L., Viprey M., Godet A., **Vaultot D.** Picoplankton diversity in the South-East Pacific Ocean from cultures. *Biogeosciences*: 5, 203-214.
- 93 - 2008 Masquelier S., **Vaultot D.** Distribution of micro-organisms along a transect in the South-East Pacific Ocean (BIOSOPE cruise) from epifluorescence microscopy. *Biogeosciences*: 5, 215-225.
- 92 - 2008 Zwirgmaier K., Jardillier L., Ostrowski M., Mazard S., Garczareck L., **Vaultot D.**, Not F., Massana R., Ulloa O., Scanlan D.J. Global phylogeography of marine *Synechococcus* and *Prochlorococcus* reveals a distinct partitioning of lineages amongst oceanic biomes. *Environmental Microbiology*: 10, 147-161,

- 91 - 2007 Not F., Valentin K., Romari K., Lovejoy C., Massana R., Töbe K., **Vaultot D.**, Medlin L. Picobiliphytes, a new marine picoplanktonic algal group with unknown affinities to other eukaryotes. *Science*: 315, 252-254.
- 90 - 2007 Thingstad T.F., Havskum H., Zweifel U.L., Berdalet E., Sala M., Peters F., Alcaraz M., Scharek R., Perez M., Jacquet S., Fonnes G.A., Dolan J., Marrase C., Rassoulzadegan F., Hagström A., **Vaultot D.** Ability of a "minimum" microbial food web model to reproduce response patterns observed in mesocosms manipulated with N and P, glucose, and Si. *Journal of Marine Systems*: 64, 15-34
- 89 - 2006 Groisillier, A., Massana, R., Valentin, K., **Vaultot D.**, Guillou, L. Genetic diversity and habitats of two enigmatic marine alveolate lineages. *Aquatic Microbial Ecology*: 42:277-291
- 88 - 2006 Shalchian-Tabrizi K., Eikrem W., Klaveness D., **Vaultot D.**, Le Gall F., Romari K., Throndsen J., Massana R., Thomsen H.A., Jakobsen K.S. Telonemia, a new protist phylum with affinity to chromist lineages: *Proceedings of the Royal Society of London Series B -Biological Sciences* 253, 1833-1842
- 87 - 2006 Fuller N.J., Campbell C., Allen D.J., Pitt F.D., Le Gall F., **Vaultot D.**, Scanlan D.J. Analysis of photosynthetic picoeukaryote diversity at open ocean sites in the Arabian Sea using the PCR biased towards marine algal plastids. *Aquatic Microbial Ecology* 43:79-93,
- 86 - 2006 Marie D., Zhu F., Balagué V., Ras J., **Vaultot D.** Eukaryotic picoplankton communities of the Mediterranean Sea in summer assessed by molecular approaches (DGGE, TTGE, QPCR). *FEMS Microbiology Ecology*: 55, 403-415.
- 85 - 2005 Not F., Massana R., Latasa M., Marie D., Colson C., Eikrem W., Pedrós-Alió C., **Vaultot D.**, Simon N. Late summer community composition and abundance of photosynthetic picoeukaryotes in Norwegian and Barents seas. *Limnology and Oceanography*: 50, 1677-1686.
- 84 - 2005 Rodríguez F., Derelle E., Guillou L., Le Gall F., **Vaultot D.**, Moreau H. Ecotype diversity in the marine picoeukaryote *Ostreococcus* (Chlorophyta, Prasinophyceae). *Environmental Microbiology*: 7, 853-859.
- 83 - 2005 Zhu F., Massana R., Not F., Marie D., **Vaultot D.** Mapping of picoeucaryotes in marine ecosystems with quantitative PCR of the 18S rRNA gene. *FEMS Microbiology Ecology*: 52, 79-92
- 82 - 2004 Eikrem W., Romari K., Gall F.L., Latasa M., **Vaultot D.** *Florenciella parvula* gen. and sp. nov. (Dictyochophyceae, Heterokontophyta) a small flagellate isolated from the English Channel. *Phycologia*: 43, 658-668.
- 81 - 2004 Guillou L., Eikrem W., Chrétiennot-Dinet M.J., Le Gall F., Massana R., Romari K., Pedrós-Alió C., **Vaultot D.** Diversity of picoplanktonic prasinophytes assessed by direct nuclear SSU rDNA sequencing of environmental samples and novel isolates retrieved from oceanic and coastal marine ecosystems. *Protist*: 155, 193-214.
- 80 - 2004 Mary I., Tu C.J., Grossman A.R., **Vaultot D.** High light effects on stress associated transcripts of the freshwater cyanobacterium *Synechocystis* sp. PCC 6803 and the marine cyanobacteria *Prochlorococcus* MED4 and *Prochlorococcus* MIT9313. *Microbiology*: 150, 1271-1281.
- 79 - 2004 Not F., Latasa M., Marie D., Cariou T., **Vaultot D.**, Simon N. A single species *Micromonas pusilla* (Prasinophyceae) dominates the eukaryotic picoplankton in the Western English Channel. *Applied and Environmental Microbiology*: 70, 4064-4072
- 78 - 2004 Romari K., **Vaultot D.** Composition and temporal variability of picoeukaryote communities at a coastal site of the English Channel from 18S rDNA sequences. *Limnology and Oceanography*: 49, 784-798.
- 77- 2004 **Vaultot D.**, Le Gall F., Marie D., Guillou L., Partensky F. The Roscoff Culture Collection (RCC): a collection dedicated to marine picoplankton. *Nova Hedwigia*: 79, 49-70



- 76 - 2003 Mary I., **Vaultot D.** Two-component systems in *Prochlorococcus* MED4: Genomic analysis and differential expression under stress. *FEMS Microbiology Letters*: 226, 135-144.
- 75 - 2003 Fuller N.J., Marie D., Partensky F., **Vaultot D.**, Post A.F., Scanlan D.J. Clade-specific 16S ribosomal DNA oligonucleotides reveal the predominance of a single marine *Synechococcus* clade throughout a stratified water column in the Red Sea. *Applied and Environmental Microbiology*: 69, 2430-2443.
- 74 - 2003 Biegala I., Not F., **Vaultot D.**, Simon N. Quantitative assessment of picoeucaryotes in the natural environment using taxon specific oligonucleotide probes in association with TSA-FISH (Tyramide Signal Amplification - Fluorescent In Situ Hybridization) and flow cytometry. *Applied and Environmental Microbiology*: 69:5519-5529.
- 73 - 2002 **Vaultot D.**, Romari K., Not F. Are autotrophs less diverse than heterotrophs in marine picoplankton? *Trends in Microbiology*: 10, 266-7.
- 72 - 2002 Simon N., Biegala I.C., Smith E.A., **Vaultot D.** Kinetics of attachment of potentially toxic bacteria to *Alexandrium tamarense*. *Aquatic Microbial Ecology*: 28, 249-256.
- 71 - 2002 Not F., Simon N., Biegala I.C., **Vaultot D.** Application of fluorescent in situ hybridization coupled with tyramide signal amplification (FISH-TSA) to assess eukaryotic picoplankton composition. *Aquatic Microbial Ecology*: 28, 157-166.
- 70 - 2002 Jacquet S., Havskum H., Thingstad T.F., **Vaultot D.** Effects of inorganic and organic nutrient addition on a coastal microbial community (Isefjord, Denmark). *Marine Ecology Progress Series*: 228, 3-14.
- 69 - 2002 Jacquet S., Prieur L., Avois Jacquet C., Lennon J.F., **Vaultot D.** Short-timescale variability of picophytoplankton abundance and cellular parameters in surface waters of the Alboran Sea (western Mediterranean). *Journal of Plankton Research*: 24, 635-651.
- 68 - 2002 Biegala I.C., Kennaway G., Alverca E., Lennon J.F., **Vaultot D.**, Simon N. Identification of bacteria associated with dinoflagellates (Dinophyceae) *Alexandrium* spp. using tyramide signal amplification-fluorescent in situ hybridization and confocal microscopy. *Journal of Phycology*: 38, 404-411.
- 67 - 2002 Bhaya D., Dufresne A., **Vaultot D.**, Grossman A. Analysis of the hli gene family in marine and freshwater cyanobacteria. *FEMS Microbiology Letters*: 215, 209-219.
- 66 - 2001 Guillou L., Jacquet S., Chrétiennot-Dinet M-J, **Vaultot D.** Grazing impact of two picoplanktonic heterotrophic flagellates on *Prochlorococcus* and *Synechococcus*. *Aquatic Microbial Ecology* 26: 201-207
- 65 - 2001 Moon-van der Staay S.Y., de Wachter R., **Vaultot D.** Oceanic 18S rDNA sequences from picoplankton reveal new eukaryotic lineages. *Nature* 409: 607-610
- 64 - 2001 Jacquet S., Partensky F., Marie D., Casotti R., **Vaultot D.** Cell cycle regulation by light in *Prochlorococcus*. *Applied and Environmental Microbiology* 67: 782-790
- 63 - 2001 Jacquet S., Partensky F., Lennon J.-F., **Vaultot D.** Diel patterns of marine picoplankton in culture. *Journal of Phycology* 37: 357-369
- 62 - 2001 Holtzendorff J. , Partensky F., Jacquet S., Bruyant F., Marie D., Garczarek L., Mary I., **Vaultot D.**, Zhang C.C. and Hess W. R. Periodic expression of cell cycle-related genes in synchronized cultures of *Prochlorococcus* PCC 9511. *Journal of Bacteriology* 183: 915-920
- 61 - 2000 Bhaya D, **Vaultot D.**, Amin P, Takahashi A, Grossman AR. Isolation of regulated genes of the cyanobacterium *Synechocystis* sp. strain PCC 6803 by differential display. *Journal of Bacteriology* 182: 5692-5699
- 60 - 2000 Moon-van der Staay S.Y., van der Staay G.W.M, Guillou L, Claustre H, **Vaultot D.** Abundance and diversity of Prymnesiophyceae in picoplankton communities from the equatorial Pacific Ocean inferred from 18S rDNA sequences. *Limnology and Oceanography* 45: 98-109

- 59 - 1999 Guillou L., Chrétiennot-Dinet M-J, Moon-van der Staay S.Y., Boulben S., **Vaultot D.** *Symbiomonas scintillans* gen. and sp. nov. and *Picophagus flagellatus* gen et sp. nov. (Heterokonta): two new heterotrophic flagellates with picoplanktonic size. *Protist* 150: 383-398
- 58 - 1999 Bricaud A., Allali K., Morel A, Marie, D, Veldhuis MJW, Partensky F, **Vaultot D.** Divinyl chlorophyll a-specific absorption coefficients and absorption efficiency factors for *Prochlorococcus* sp.: kinetics of photoacclimation. *Marine Ecology Progress Series* 188: 21-32
- 57 - 1999 Christaki U., Jacquet S., Dolan J., **Vaultot D.** and Rassoulzadegan F. Growth and grazing on *Prochlorococcus* and *Synechococcus* by two marine ciliates. *Limnology and Oceanography* 44: 52-61
- 56 - 1999 Claustre H., Babin M., Cailliau C., Marie M., Marty J.-C., **Vaultot D.** Variability in beam attenuation and stimulated fluorescence in the tropical and equatorial Pacific: scales, patterns and biogeochemical implications. *Journal of Geophysical Research - Ocean* 104: 3401-3422.
- 55 - 1999 Guillou L., Moon-van der Staay S.Y., Claustre H, Partensky F., **Vaultot D.** Diversity and abundance of Bolidophyceae (Heterokonta) in oceanic waters. *Applied and Environmental Microbiology* 65: 4528-4536
- 54 - 1999 Guillou L., Chrétiennot-Dinet M-J, Medlin L.K., Claustre H., Loiseaux-de Goër S., **Vaultot D.** *Bolidomonas*: a new genus with two species belonging to a new algal class, the Bolidophyceae class. nov. (Heterokonta). *Journal of Phycology* 35: 368-381
- 53 - 1999 Liu H.B., Landry M., Campbell L. and **Vaultot D.** *Prochlorococcus* growth rates in the central equatorial Pacific: an application of the fmax approach. *Journal of Geophysical Research - Ocean.* 104: 3391-3399
- 52 - 1999 Marie D., Brussaard C.P.D., Thyrraug R., Bratbak G., and **Vaultot D.** Enumeration of viruses in marine samples by flow cytometry. *Applied and Environmental Microbiology* 65: 45-52.
- 51 - 1999 Neveux J., Lantoin F., Marie D., **Vaultot D.** and Blanchot, J. Phycoerythrins in the southern tropical and equatorial Pacific Ocean: evidences for new cyanobacterial types. *Journal of Geophysical Research - Ocean* 104: 3311-3321
- 50 - 1999 Partensky F, Hess WR and **Vaultot D.** *Prochlorococcus*, a marine photosynthetic prokaryote of global significance. *Microbiology and Molecular Biology Reviews* 63: 106-127
- 49 - 1999 **Vaultot D.** and Marie D. Diel variability of photosynthetic picoplankton in the equatorial Pacific. *Journal of Geophysical Research - Ocean* 104: 3297-3310.
- 48 - 1998 Jacquet S., Lennon J-F, Marie D, **Vaultot D.** Picoplankton dynamics in coastal waters of the north-western Mediterranean Sea. *Limnology and Oceanography* 43: 1916-1931.
- 47 - 1998 Jacquet S., Lennon J-F, **Vaultot D.** Application of a compact automatic sea water to high frequency picoplankton studies. *Aquatic Microbial Ecology* 14: 309-314.
- 46 - 1998 Yahel G, Post AP, Fabricius K, **Vaultot D.** Marie D and Genin A. Phytoplankton distribution and grazing near coral reefs. *Limnology and Oceanography* 43: 551-563.
- 45 - 1997 Chrétiennot-Dinet M-J, Giraud-Guille M-M, **Vaultot D.** Putaux J-L, Saito Y, Chanzy H. The chitinous nature of filaments ejected by *Phaeocystis* (Prymnesiophyceae). *Journal of Phycology* 33: 666-672
- 44 - 1997 Marie, D., Partensky, F, Jacquet S., **Vaultot D.** Enumeration and cell cycle analysis of natural populations of marine picoplankton by flow cytometry using the nucleic acid stain SYBR Green I. *Applied and Environmental Microbiology* 63: 186-193.
- 43 - 1997 Campbell, L, Hongbin, L., Nolla, H.A., **Vaultot D.** Annual variability of phytoplankton and bacteria in the subtropical North Pacific at station ALOHA during the - 1991– 1994 ENSO event. *Deep-Sea Research* 44, 167-192.
- 42 - 1996 Cailliau C., Claustre H., Vidussi F., Marie D., **Vaultot D.** Carbon biomass and gross growth rates as estimated from <sup>14</sup>C pigment labelling, during photoacclimation in *Prochlorococcus* CCMP1378. *Marine Ecology Progress Series* 145: 209-221

- 41 - 1996 Hess W.R., Partensky F., van der Staay G.W.M., Garcia-Fernandez J., Boerner T, **Vaultot D.** Coexistence of phycoerythrin and a chlorophyll *a/b* antenna in a marine prokaryote. *Proceedings of the National Academy of Sciences USA*. 93: 11126-11130.
- 40 - 1996 Lange, M., Guillou, L., **Vaultot D.**, Simon, N., Amann, R., Ludwig, W., Medlin, L.K. Identification of the class Prymnesiophyceae and the genus *Phaeocystis* with rRNA-targeted nucleic acid probes. *Journal of Phycology* 32: 858-868.
- 39 - 1996 Marie, D., Partensky, F, **Vaultot D.** Application of the novel DNA dyes YOYO-1, YOPRO-1 and Picogreen for flow cytometric analysis of marine prokaryotes. *Applied and Environmental Microbiology* 62: 1649-1655.
- 38 - 1996 **Vaultot D.**, Le Bot N., Marie D, Fukai, E. Effect of phosphorus on the *Synechococcus* cell cycle in surface mediterranean waters during summer. *Applied Environmental Microbiology* 62: 2527-2533.
- 37 - 1996 Medlin L.K., Barker G.L.A., Campbell L., Green J.C., Hayes P.K , Marie D., Wrieden S. and **Vaultot D.** Genetic characterisation of *Emiliania huxleyi* (Haptophyta). *Journal of Marine Systems* 9: 13-31.
- 36 - 1996 Edvardsen B. and **Vaultot D.** Ploidy analysis of the two motile forms of *Chrysochromulina polylepis* (Prymnesiophyceae) *Journal of Phycology*. 32: 94-102
- 35 - 1996 Parpais J., Marie D., Partensky F., Morin P. and **Vaultot D.** Effect of phosphorus starvation on the cell cycle of the photosynthetic prokaryote *Prochlorococcus*. *Marine Ecology Progress Series* 132: 265-274.
- 34 - 1996 Scanlan, D.J., Hess, W.R., Partensky, F., Scanlan, J. and **Vaultot D.** High degree of genetic variation in *Prochlorococcus* (Prochlorophyta) revealed by RFLP analysis. *European Journal of Phycology* 31: 1-9.
- 33 - 1995 Abraham R.T., Acquarone M., Andersen A., Asensi A., Belle R., Berger F., Bergounioux C., Brunn G., Buquet-Fagot C., Fagot D., Glab N., Goudeau H., Goudeau M., Guerrier P., Houghton P.J., Hendricks H., Kloareg B., Lippai M., Marie D., Maro B., Meijer L., Mester J., Mulner-Morillon O., Poulet S.A., Schierenberg E., Schutte B., **Vaultot D.** and Verlhac M.H. Cellular effects of olomoucine, an inhibitor of cyclin-dependent kinases. *Biology of the Cell* 83: 105-120.
- 32 - 1995 Simon N., Le Bot N., Marie D., Partensky F., **Vaultot D.** Fluorescent in situ hybridization with rRNA-targeted probes for identifying small phytoplankton by flow cytometry. *Applied Environmental Microbiology* 61: 2506-2513.
- 31 - 1995 **Vaultot D.** , Marie D., Olson R.J., Chisholm S.W. Growth of *Prochlorococcus*, a photosynthetic prokaryote, in the equatorial Pacific Ocean. *Science* 268: 1480-1482.
- 30 - 1995 Hess W.R., Weihe A., Loiseaux-de Goer S., Partensky F. and **Vaultot D.** Characterisation of the single psbA gene of *Prochlorococcus marinus* CCMP 1375 (Prochlorophyta). *Plant Molecular Biology* 27: 1189-1196.
- 29 - 1994 Simon, N., Barlow, R. G., Marie, D., Partensky, F., **Vaultot D.** Flow cytometric analysis of oceanic photosynthetic picoeucaryotes. *Journal of Phycology* 30: 922-935.
- 28 - 1994 **Vaultot D.**, Birrien, J.-L., Marie, D., Casotti, R., Veldhuis, M. J. W., Kraay, G. W., Chrétiennot-Dinet, M.-J. *Phaeocystis* spp.: morphology, ploidy, pigment composition and genome size of cultured strains. *Journal of Phycology* 30: 1022-1035.
- 27 - 1994 Cariou, V., Casotti, R., Birrien, J.-L., **Vaultot D.** The initiation of *Phaeocystis* colonies. *Journal of Plankton Research* 16: 457-470.
- 26 - 1994 Campbell L., Nolla H.A. and **Vaultot D.** The importance of *Prochlorococcus* to community structure in the central North Pacific Ocean. *Limnology and Oceanography* 39: 954-961
- 25 - 1994 Rousseau V., **Vaultot D.**, Casotti R., Cariou V., Bauman M., Güntel J. and Lenz J. The *Phaeocystis* life cycle: evidence and hypotheses. *Journal of Marine Systems* 5: 23-39.
- 24 - 1993 Morel A., Ahn Y.-W., Partensky, F., **Vaultot D.** and Claustre H. *Prochlorococcus* and *Synechococcus*: a comparative study of their size, pigmentation and related optical properties. *Journal of Marine Research* 51: 617-649.

- 23 - 1993 Campbell, L. and **Vaultot D.** Photosynthetic picoplankton community structure in the subtropical central North Pacific Ocean (Station ALOHA). *Deep-Sea Research* 40: 2043-2060.
- 22 - 1993 Partensky F., Hoepffner N., Li W.K.W., Ulloa O. and **Vaultot D.** Photoacclimation of *Prochlorococcus* sp. (Prochlorophyta) strains isolated from the North Atlantic and the Mediterranean Sea. *Plant Physiology* 101: 285-296.
- 21 - 1992 **Vaultot D.** and Partensky F. Cell cycle distributions of prochlorophytes in the north-western Mediterranean Sea. *Deep-Sea Research*. 39:727-742
- 20 - 1992 **Vaultot D.** Estimate of phytoplankton division rate by the "mitotic index" method: the case of slow-growing populations. *Limnology and Oceanography*. 37: 644-649
- 19 - 1992 Ning Xiu-Ren and **Vaultot D.** Estimating *Synechococcus* spp. growth rates and grazing pressure by heterotrophic nanoplankton in the English Channel and the Celtic Sea. *Acta Oceanologica Sinica*. 11: 255-273.
- 18 - 1991 Chretiennot-Dinet M.J., **Vaultot D.**, Galois R., Spano A.M., Robert R. Analysis of oyster larvae grazing by flow cytometry. *Journal of Shellfish Research*. 10: 457-463
- 17 - 1991 Partensky, F., **Vaultot D.** and Videau C. Growth and cell cycle of two closely related red tide-forming dinoflagellates, *Gymnodinium nagasakiense* and *Gymnodinium cf nagasakiense*. *Journal of Phycology*. 27: 733-742
- 16 - 1991 Boucher, N., **Vaultot D.** and F. Partensky. Flow cytometric determination of phytoplankton DNA in cultures and natural populations. *Marine Ecology - Progress Series*. 71: 75-84
- 15 - 1990 **Vaultot D.**, Partensky F., Neveux, J., Mantoura, R.F.C. and Llewellyn, C. Wintertime presence of prochlorophytes in surface waters of the North-Western Mediterranean Sea. *Limnology and Oceanography*. 35: 1156-1164.
- 14 - 1989 Neveux J., **Vaultot D.**, Courties C. and Fukai E. Green photosynthetic bacteria associated with the deep chlorophyll maximum of the Sargasso Sea. *Comptes Rendus de l'Académie des Sciences (Paris)*. 308, III, 9-14.
- 13 - 1989 **Vaultot D.**, Courties C. and Partensky F. A simple method to preserve oceanic phytoplankton for flow cytometric analyses. *Cytometry* 10: 629-635.
- 12 - 1989 Partensky F. and **Vaultot D.** Cell size differentiation in the bloom-forming dinoflagellate *Gymnodinium cf nagasakiense*. *Journal of Phycology* 25: 741-750.
- 11 - 1989 Fellah J.S., **Vaultot D.**, Tournefier A. and Charlemagne J. Ontogeny of immunoglobulin expression in the mexican axolotl. *Development* 107: 253-263.
- 10 - 1988 **Vaultot D.** and Ning X. Abundance and cellular characteristics of marine *Synechococcus* spp. in the dilution zone of the Changjiang (Yangtze river, China). *Continental Shelf Research* 8:1171-1186.
- 9 - 1988 Partensky F., **Vaultot D.**, Couté A. and Sournia A. Morphological and nuclear analysis of the bloom forming dinoflagellates *Gyrodinium cf aureolum* and *Gymnodinium nagasakiense* (Dinophyceae). *Journal of Phycology* 24: 408-415.
- 8 - 1988 Ning X., **Vaultot D.**, Liu Zh. and Liu Zi. Standing stock and production of phytoplankton in the Changjiang (Yangtze river) estuary and the adjacent East China Sea. *Marine Ecology - Progress Series* 49: 141-150.
- 7 - 1987 **Vaultot D.** and Chisholm S.W. Flow cytometric analysis of spermatogenesis in the diatom *Thalassiosira weissflogii*. *Journal of Phycology* 23: 132-137.
- 6 - 1987 **Vaultot D.** and Chisholm S.W. A simple model of the growth of phytoplankton populations in light/dark cycles. *Journal of Plankton Research* 9: 345-366.
- 5 - 1987 **Vaultot D.**, Olson R.J., Merkel S. and Chisholm S.W. Cell cycle response to nutrient starvation in two phytoplankton species. *Marine Biology* 95: 625-630.
- 4 - 1986 **Vaultot D.** et Frisoni G.F. Phytoplanktonic production and nutrients in five mediterranean lagoons. *Oceanologica Acta*, 9: 57-63.
- 3 - 1986 **Vaultot D.**, Olson R.J. and Chisholm S.W. Light and dark control of the cell cycle in two marine phytoplankton species. *Experimental Cell Research* 167: 38-52.
- 2 - 1986 Olson R.J., **Vaultot D.** and Chisholm S.W. Effect of environmental stresses on the cell cycle of two marine phytoplankton species. *Plant Physiology* 80: 918-925.

- 1 - 1985 Olson R.J., **Vaultot D.** and Chisholm S.W. Marine phytoplankton distributions measured using shipboard flow cytometry. *Deep Sea Research* 32: 1273-1280.

### Book chapters

- 13-2022 Lopes Dos Santos, A., Ribeiro G  rikas, C., Ong, D., Garczarek, L., Shi, X. L., Nodder, S., **Vaultot, D.**, Gutierrez-Rodriguez, A. (2022). Phytoplankton diversity and ecology through the lens of high throughput sequencing technologies. In L. Clementson, R. Eriksen, & A. Willis [Eds.], *Advances in Phytoplankton Ecology. Applications of emerging technologies*. Elsevier. pp. 353-413.
- 12-2016 Not, F., Probert, I., Gerikas Ribeiro, C., Crenn, K., Guillou, L., Jeanthon, C., **Vaultot D.** Photosymbiosis in Marine Pelagic Environments. In Stal, L. J., Cretoiu, S. M. [Eds.] *The Marine Microbiome*. Springer International Publishing, Cham, pp. 305-32.
- 11-2012 Not F., Siano R., Kooistra W.H.C.F., Simon N., **Vaultot D.**, Probert I., Diversity and ecology of eukaryotic marine phytoplankton, in *Genomic insights gained into the Diversity, Biology and Evolution of Microbial Photosynthetic Eukaryotes*, edited by G. Piganeau, pp. 1-53, Elsevier, Amsterdam.
- 10-2007 Translation in French of Chapter 14, *Biologie de la cellule eucaryote et micro-organismes eucaryotes*, in Brock - *Biologie des Microorganismes*, edited by M.T. Madigan, and J.M. Martinko, Pearson - Prentice Hall, Upper Saddle River (book translation coordinated by D. Prieur, Universit   de Bretagne Occidentale).
- 9-2005 Marie, D., Simon, N., **Vaultot, D.** Phytoplankton cell counting by flow cytometry, p. 253-267. In Andersen, R. A. [ed.], *Algal Culturing Techniques*. Academic Press..
- 8-2001 **Vaultot D.**. Phytoplankton. *Encyclopedia of Life Sciences*, <http://www.els.net>, Nature Publishing Group. London
- 7-2000 Marie D., Partensky, F., Simon N., Guillou L. and **Vaultot D.** Flow cytometry analysis of marine picoplankton. In: Diamond R.A., DeMaggio S. (eds.). In *Living Color: Protocols in Flow Cytometry and Cell Sorting*. R.G. Landes Company
- 6-2000 Marie D., Simon N., Guillou, L., Partensky F. and **Vaultot D.** DNA, RNA analysis of phytoplankton by flow cytometry. In: *Current Protocols in Cytometry*. John Wiley, Sons, Inc. 11.12.1-18.
- 5-1999 Marie D., Brussaard C., Partensky F. and **Vaultot D.** Flow cytometric analysis of phytoplankton, bacteria and viruses . In: *Current Protocols in Cytometry*. John Wiley, Sons, Inc. 11.11.1-11.11.15
- 4-1999 Partensky F, Blanchot J and **Vaultot D.** Differential distribution of *Prochlorococcus* and *Synechococcus* in oceanic waters: a review. In: Charpy L, Larkum A.W.D. (eds), *Marine cyanobacteria*. *Bulletin de l'Institut Oc  anographique de Monaco* No sp. 19: 457-475
- 3-1995 **Vaultot, D.** The cell cycle of phytoplankton: coupling cell growth to population growth. In I. Joint (ed.) *NATO ASI Series. Vol. G. 38 "Molecular Ecology of Aquatic Microbes"*. Springer-Verlag Berlin. p. 303-322.
- 2-1991 Jickells T.D., Blackburn T.H., Blanton J.O., Eisma D., Fowler S.W., Mantoura R.F.C., Martens C.S., Moll A., Scharek R., Suzuki Y. and **Vaultot D.** What determines the fate of materials within ocean margins? In: Mantoura R.F.C., Martin J.-M. and Wollast R. (eds), *Ocean Margin Processes in Global Change (Dahlem Conference Workshop Reports, LS 51)*, John Wiley and Sons, Chichester: 211-234.
- 1-1984 Chisholm S.W., **Vaultot D.** and Olson R.J. Cell cycle controls in phytoplankton: comparative physiology and ecology. In: L.N. Edmunds (ed.) *Cell Cycle Clocks*. M.Dekker. N.Y. pp. 364-395.

### Other Publications (Magazines, Proceedings, Reports...)

- 2023 Vaultot, D. A brief and personal history of Plankton research in Roscoff. *Cahiers de Biologie Marine* 64: 53-63. <https://doi.org/10.21411/CBM.A.BBFC3EFF>.

- 2018 Partensky, F. and Vaultot, D. 2018. Alain Sournia, phycologist and philosopher (1940-2018). *Cahiers de Biologie Marine* 59:403-7.
- 2007 Kraberg A., Vaultot D., Jouenne F., Amorim A., Moita T., Young J., Appeltans W., Wiltshire K. PLANKTON\*NET: A new and improving tool for studying and monitoring Harmful Algal Blooms. *Harmful Algae News* 34: 9-11.
- 2007 Sherr B., Sherr E., Caron D.A., Vaultot D., Worden A.Z. Oceanic protists. *Oceanography* 20: 130-134.
- 1998 Blanchot J., Guillou L., Partensky F., Simon N., Vaultot D. Le petit peuple du grand large. *Biofuturs* 179: 22-24.
- 1997 Partensky F., Guillou L., Simon N. and Vaultot D. Recent advances in the use of molecular techniques to assess the genetic diversity of marine photosynthetic micro-organisms. *Vie et Milieu* 47: 367-374.
- 1996 Edvardsen B., Eikrem W., Vaultot D. and Paasche E. Comparison between authentic and alternate *Chrysochromulina polylepis*: morphology, growth, toxicity and ploidy level. In: Yasumoto T., Oshima Y. and Fukuyo Y. (eds.) *Harmful and Toxic Algal Blooms*, IOC 231-234.
- 1995 Le picoplancton piégé. *Le Journal du CNRS*. 72: 21-22.
- 1995 Vaultot, D. Marine biodiversity at the micron scale. UNESCO IMS. Newsletter. 75/76.
- 1995 Vaultot, D., Marie, D. and Simon N. Photosynthetic prokaryotes (*Prochlorococcus*, *Synechococcus*) in the western Mediterranean Sea. In: Martin J.-M, Barth H. (eds) *EROS 2000 (European River Ocean System) Project Fifth Workshop (Water Pollution Research Reports, 32)*, CEC, Brussels: 149-155.
- 1993 Vaultot, D., Partensky, F. and Martin-Jézéquel, V. *Prochlorococcus* workshop. Report. 72 pp.
- 1993 Vaultot, D. and Partensky, F. Oceanic prochlorophytes, a critical link in the oligotrophic ocean. *Le Courrier de JGOFS-France* 2: 13-14.
- 1993 Vaultot, D. and Marie, D. Photosynthetic picoplankton in the western Alboran Sea in March 1992. In: Martin J.-M, Barth H. (eds) *EROS 2000 (European River Ocean System) Project Fourth Workshop (Water Pollution Research Reports, 30)*, CEC, Brussels: 67-72.
- 1992 Vaultot, D. and Partensky, F. Photosynthetic picoplankton of the North-West Mediterranean Sea in summer: comparison with the winter situation. In: Martin J.-M, Barth H. (eds) *EROS 2000 (European River Ocean System) Project Third Workshop (Water Pollution Research Reports, 28)*, CEC, Brussels: 173-181.
- 1990 Vaultot D. and Ning X. Estimation by epifluorescence microscopy of photosynthetic plankton abundance in the dilution zone of the Changjiang River. In: Yu G., Martin J.M., Zhou J., Windom H. and Dawson R. (eds), *Biogeochemical Study of the Changjiang Estuary*, China Ocean Press: 136-149.
- 1989 Vaultot, D. CYTOPC: Processing software for flow cytometric data. *Signal and Noise* 2:8.
- 1989 Vaultot D. and Partensky F. Winter distribution of marine cyanobacteria (*Synechococcus* spp.) in the North-Western Mediterranean Sea. In: Martin J.-M, Barth H. (eds) *EROS 2000 (European River Ocean System) Project Workshop (Water Pollution Research Reports, 13)*, CEC, Brussels: 136-149.
- 1988 Vaultot D. Un EPICS en mer. *La Une de Coulter*. 7,1
- 1987 Frankel S.L., Olson R.J., Vaultot D., Armbrust E.V., Newman K., Chisholm S.W. A microscope based flow cytometer for measuring two parameter fluorescence signals. M.I.T. Ralph M. Parsons Laboratory Technical Note No 27.
- 1985 Vaultot D. Cell cycle controls in marine phytoplankton. Ph.D. thesis. Massachusetts Institute of Technology. Cambridge.

## On-line databases

2022-current	metaPR <sup>2</sup> database : <a href="https://shiny.metapr2.org">https://shiny.metapr2.org</a>
2021-current	PR2 primers database : <a href="https://app.pr2-primers.org">https://app.pr2-primers.org</a>
2017-current	PR2 18S rRNA database : <a href="https://pr2-database.org">https://pr2-database.org</a>
2000-current	Roscoff Culture Collection database and web site : <a href="http://roscoff-culture-collection.org">http://roscoff-culture-collection.org</a>

## Data sets

2022	Guieu, C., Bonnet, ..., <b>Vaultot, D.</b> , ..., Whitby, H., 2022. BIOGEOCHEMICAL dataset collected during the TONGA cruise. Sea scientific open data edition. <a href="https://doi.org/10.17882/88169">https://doi.org/10.17882/88169</a>
2021	Lemoine, M., ..., <b>Vaultot, D.</b> , ..., Siltanen, J., 2021. PHYTOBS dataset - french national service of observation for phytoplankton in coastal waters. <a href="https://hal.archives-ouvertes.fr/hal-03553028">https://hal.archives-ouvertes.fr/hal-03553028</a> .
2020	Claustre H., ... <b>Vaultot D.</b> . BIOGEOCHEMICAL dataset collected during the PROSOPE cruise. Sea scientific open data edition. <a href="https://doi.org/10.17882/71723">https://doi.org/10.17882/71723</a>
2016	Bruyant, F., ..., <b>Vaultot, D.</b> , ..., Babin, M., The Green Edge cruise: following the evolution of the Arctic phytoplankton spring bloom, from ice-covered to open waters. Sea scientific open data edition. <a href="https://doi.org/10.17882/86417">https://doi.org/10.17882/86417</a> .

## Software and web sites

2017	Open source tutorials for R and metabarcode analysis : <a href="https://github.com/vaultot">https://github.com/vaultot</a>
2017	ASIAME thematic school web site
2005-2014	Aquatic Microbes Forum web site: aquatic_microbes.sb-roscoff.fr (does not exist anymore)
1998-2014	Phytoplankton Team web site. www.sb-roscoff.fr/Phyto (does not exist anymore)
2005-2008	Planton*Net @Roscoff web site: planktonnet.sb-roscoff.fr (does not exist anymore)
2000-2003	European project PICODIV web site: www.sb-roscoff.fr/Phyto/PICODIV/ (does not exist anymore)
1998	MontePop. A Monte Carlo model of phytoplankton population subjected to light-dark cycles. Delphi3. Windows 95. Unpublished.
1985-1995	CytoWin. Analysis of flow cytometry data for oceanographic applications. Delphi 1. Windows 3.1. (Vaultot, Signal and Noise, 1989).

## Scientific meetings

### Organization of meetings

2007	Local organizer of the 45ème Colloque du Groupement des Protistologues de Langue Française, Roscoff 29-31 May 2007 (40 participants)
2004	Chair of the Gordon Research Conference "Marine Microbes", Roscoff June 2004 (115 participants)
2002	Organizer of " Picoplankton diversity" workshop held in Roscoff (30 participants)
2000	Organizer with D. Scanlan of "Microbial Diversity in Aquatic Systems: Environmental Gene Cloning and Analysis" workshop held in Roscoff (60 participants)
1999	Organizer with F. Partensky of the second "Prochlorococcus workshop" held in Roscoff. This one week workshop combined conferences and hands-on experiments (30 participants).

- 1997 Organizing committee of the meeting on "Marine Cyanobacteria" held at the Institut Océanographique, Paris (100 participants).
- 1993 Organizer with F. Partensky of the first "*Prochlorococcus* workshop" held in Roscoff. This one week workshop combined conferences and hands-on experiments (30 participants).
- 1990 Organizing committee of the NATO Advanced Study Institute: "Individual Particle Analysis in Oceanography" held in Acquafredda di Maratea, Italy (100 participants).

### Invited presentations

- 2022 Vaultot, D. A brief history of Plankton in Roscoff. Symposium for the 150 years of the Station Biologique de Roscoff, 5-7 October 2022, France. Invited talk.
- 2022 Vaultot, D. The PR2 ecosystem: a set of interconnected databases for protist eukaryotic 18S rRNA metabarcodes. Meeting of the AFEM (Association Française d'Ecologie Microbienne), Clermont-Ferrand, France. Invited talk.
- 2020 Vaultot, D. The Protist Ribosomal Reference Database (PR2): status and prospects. Protist. Online, Electronic Symposium on Protistology (<https://protist.online/>). Invited talk.
- 2019 Vaultot, D. Green picoplankton. March 2019. University of Technology Sydney, Australia. Invited talk.
- 2019 Vaultot, D. A short history of picoplankton. March 2019. JAMS Symposium, Sydney, Australia. Invited talk.
- 2018 Vaultot, D. Symbioses between Haptophyta and nitrogen-fixing cyanobacteria. January 2018. ECODIM Symposium, Concepcion, Chile. Invited talk.
- 2015 Vaultot, D. Green algae in the ocean. In: Gordon Research Conference, Marine Molecular Ecology. August 2015, Hong-Kong. Invited talk.
- 2013 Vaultot D., Lopes dos Santos A. Green phytoplankton in marine waters. Commemorative Symposium for the 29th International Prize for Biology: Influences and impacts of evolutionary biology, celebrating Dr. Joseph Felsenstein (Prize Winner). 21-22 november 2013, Kyushu University, Fukuoka, Japan. Invited talk.
- 2013 Vaultot D., Lopes dos Santos A. Picoeucaryote metagenomes from the South-Eastern Pacific Ocean. International Symposium on Aquatic Metagenomics : Development of Aquatic Metagenomics and Perspective of the studies on Aquatic Biodiversity 23-24 november 2013, Kitasato University, Tokyo, Japan. Invited talk.
- 2013 Vaultot D. Picoeucaryote metagenomes from the South-Eastern Pacific Ocean. ICOP XIV - International Congress of Protistology, July 28-August 2 2013, Vancouver. Invited talk.
- 2010 Vaultot D. Diversity and metagenomics of small eukaryotic phytoplankton. US-EC Workshop on Marine Genomics, 10-12 October 2010, Washington, USA. Invited talk.
- 2010 Vaultot D. Diversity and metagenomics of eukaryotic photosynthetic picoplankton in marine waters. International Society for the Evolution of Protists XVIII, 3-7 July 2010, Kanezawa, Japan. Invited talk.
- 2009 Vaultot D., Shi X.L., Marie D., Lepère C., Demura M., Kawachi M. Use of flow cytometry sorting for metagenomic analyses of marine eukaryotic picophytoplankton. Association Française de Cytométrie, Journées Thématiques 2009, 25-26 November 2009, Saint-Malo, France. Invited talk.
- 2007 Vaultot D. Marine eukaryotic picophytoplankton: exploring diversity one step further. Invited talk. CIFAR meeting on Integrated Microbial Biodiversity, Vancouver Canada, October 2007.
- 2006 Vaultot D. Marine eukaryotic picoplankton: recent advances and open questions. Invited talk. Marine Genomics, an International Conference, Sorrento Italy, October 2006.
- 2006 Vaultot D. Diversity of marine eukaryotic picoplankton. Invited talk. Current Aspects of Marine Microbial Ecology, Mini-Symposium, University of Concepcion, Chile, January 2006.
- 2005 Vaultot D. Diversity and ecology of eukaryotic photosynthetic picoplankton. Invited talk.. DOBIS meeting, Tokyo, Japan, November 2005



- 2005 Vaultot D. Le picoplancton marin : La photosynthèse à l'échelle du micron. Invited talk. Conférences Ouest-Génopole, Roscoff, France, 20 Octobre 2005
- 2005 Vaultot D. Diversity of eukaryotic marine photosynthetic picoplankton. Invited talk. Groupement des Protistologues de Langue Française, Dourdan, France, 16-18 May 2005
- 2004 Vaultot D. Diversity and function of eukaryotic microbes in marine waters. Invited talk. International Society for Microbial Ecology, Cancun Mexico, 23-27 August 2004
- 2002 Vaultot D. Oceanic picoplankton: from Ecology to Genomics. Invited talk. MPI Bremen. April 2002.
- 2001 Vaultot D. Diversity of eukaryotic picoplankton using molecular approaches. Invited talk. Food web / Biocomplexity Symposium. Otsu, Japan. November 2001.
- 2001 Vaultot D. Oceanic picoplankton: from Ecology to Genomics. Invited talk. Catalan Society of Biology, Barcelona. May 2001.
- 2000 Vaultot, D., Marie D., Blanchot J., Jacquet S. and Partensky F. Oceanic picoplankton: large scale trends and small scale variability determined by flow cytometry. Invited talk. ISAC 2000 Meeting Montpellier. June 2000.
- 1999 Vaultot D., Partensky F., Jacquet S., Holtzendorff J., Hess W.R. Cell cycling in marine cyanobacteria. Invited talk. 4th european workshop on the molecular biology of cyanobacteria. Berlin. Sept. 1999
- 1999 Guillou L., Chrétiennot-Dinet M.J., Jacquet S. and Vaultot D. Two new free-living heterotrophic species with picoplanktonic size. Invited talk. Fifth Chrysophytes Symposium. and XVI International Botanical Congress, St. Louis, USA. July 1999.
- 1997 Vaultot D., Partensky F. and Marie D. The global distribution of *Prochlorococcus* and *Synechococcus* in oceanic waters. Invited talk. Symposium on Marine cyanobacteria and related organisms. Paris. Nov. 1997.
- 1997 Vaultot D. , Partensky F. *Prochlorococcus*: a photosynthetic prokaryote of global oceanic significance. Invited talk. International Symposium on Photosynthetic Prokaryotes. Vienna. Sept 1997.
- 1997 Rassoulzadegan, F., Christaki, U., Dolan, J., Payet, G., Perez, M., Azam, F., Long, R., Berdalet, E., Marrase, C., Peters, F., Christensen, K., Havskum, H., Enger, O., Thingstad, T.F., Fuhrman, J., Noble, R., Ouverney, C., Hagstrom, A., Riemann, B., Zweifel, U., Jacquet, S., Vaultot, D., Suzuki, M. On the significance of insignificant effects of glucose additions to surface seawater. Invited talk at the ASLO Aquatic Sciences Meeting, Santa Fe, New Mexico USA. Feb 1997.
- 1997 Vaultot, D. , Marie, D. and Jacquet, S. Diel variability of picoplankton in oligotrophic waters. Invited talk at the ASLO Aquatic Sciences Meeting, Santa Fe, New Mexico USA. Feb 1997.
- 1994 Vaultot, D. Recent applications of flow cytometry in Biological Oceanography. Invited seminar. Universität Zürich. Feb 4, 1994.
- 1994 Vaultot, D. The cell cycle of phytoplankton. Invited talk. NATO ASI "Molecular Ecology of Aquatic Microbes". Il Cioccio Italy, Sept 94..
- 1990 Vaultot, D. and Partensky, F. Nitrogen control of the cell cycle in marine prokaryotic picoplankton. NATO Advanced Study Institute: "Individual Particle Analysis in Oceanography". Invited talk. Aquafredda di Maratea, Italy. October 1990.
- 1990 Discussant at the Dahlem Conference on "Coastal Margin Processes in Global Change".
- 1990 Vaultot, D. Cell cycling of phytoplankton in the ocean. Invited talk. University of Hawaii.
- 1987 Vaultot D. Oceanographic applications of flow cytometry. Invited paper to the XII International Meeting of the Society for Analytical Cytology. Cambridge. England. August 1987. Invited talk. Cytometry, Supplement 1, 28.

### Communications at conferences

- 2023 Jamy, Mahwash, Charlie Biver, Daniel Vaultot, Aleix Obiol, Hongmei Jing, Sari Peura, Ramon Massana, et Fabien Burki. 2023. Global Patterns and Rates of Habitat Transitions across the Eukaryotic Tree of Life. ECOP-ISOP joint meeting, Vienna, July 2023.

- 2023 Vaultot, Daniel, Javier Del Campo, Clarence Wei Hung Sim, and Adriana Lopes Dos Santos. The PR2 ecosystem: a set of interconnected databases to map the distribution of micro-algal taxa. European Phycological Congress, Brest, France, August 2023.
- 2022 Šupraha, L., Klemm, K., Gran-Stadniczeňko, S., **Vaultot, D.**, John, U., Edvardsen, B. Diversity and biogeography of planktonic diatoms in Svalbard fjords: the role of dispersal and Arctic endemism in phytoplankton community structuring. Nordic Society of Protistology Meeting, May 2022, Oslo.
- 2022 Eikrem, W., Supraha, L., Wohlmann, J., Vaultot, D., Edvardsen, B., *Pseudocarteria glaciale* sp. nov. (Chlamydomonadales, Chlorophyceae). An euryhaline flagellate from an Arctic melt pond. Nordic Society of Protistology Meeting, May 2022, Oslo
- 2022 Clarence Wei Hung Sim, Catherine Gérikas Ribeiro, Dominique Marie, Ian Probert, Priscilla Gourvil, Daniel Vaultot, Adriana Lopes dos Santos. Temporal dynamics of the under-ice Arctic phytoplankton Spring bloom. ISME-18, Lausanne
- 2022 Gutierrez-Rodriguez, A., Lopes Dos Santos, A., Gerring, A., Vaultot, D., Strzepek, R., Chiswell, S.M., Boyd, P.W. et al. Integrating biogeochemical and molecular tools to assess planktonic protist contribution to export fluxes and efficiency in subtropical waters of the southwest Pacific during a picophytoplankton dominated spring bloom. Ocean Sciences Meeting 2022, Honolulu, Hawaii.
- 2021 Ribeiro Gérikas, C., Lopes Dos Santos, A., Marie, D., Lovejoy, C., Trefault, N., Tragin, M., Vaultot, D. Phytoplankton diversity across the marginal ice zone in Baffin Bay, Arctic. International Phycological Congress, Chile.
- 2020 Gutiérrez-Rodríguez A., Latasa M., Cristi-Martínez A., Gourvil P., Safi K., Marie D., Santos AL dos., Vaultot D., Nodder S. Phytoplankton community composition and taxon-specific growth and grazing rates in Subantarctic HNLC waters under different mixing and nutrient-limiting conditions. Ocean Sciences Meeting.
- 2019 George C., Chénard C., Kaur A., Trottet A., Leong SCY., Vaultot D., Lopes dos Santos AL, Lauro FM. 2019. Can third generation sequencing rapidly rDNA detect harmful algal blooms (HABs)? JAMS Symposium. Sydney, Australia
- 2019 Cerfontey M., Groben R., Guomundsson K., Vaultot D., Vannier P., Pérez-Hernandez M., Marteinsson V. The Icelandic marine ecosystem: mapping phytoplankton in a complex hydrographic environment. 7th European Phycological Congress, August 2019, Zagreb, Croatia.
- 2019 Gouhier L., Gachenot M., Gourvil P., Guilloud E., Probert I., Vaultot D. Cryopreservation at the Roscoff Culture Collection. ECCO meeting. Turin.
- 2018 Chen W., Rigaut-jalabert F., Simon N., Vaultot D., Chiang K., Not F., Bachy C. Revealing diversity and temporal variability of marine planktonic ciliates using metabarcoding. Asian Congress of Protistology. Guangzhou, China.
- 2017 Jimenez, V., Probert, I., Lopes dos Santos, A., Gourvil, P., Tragin, M., Marie, D., Not, F. et al. Response of under-ice phytoplankton populations to light exposure during the Arctic spring bloom. In ICOP Meeting. Praha.
- 2017 Gérikas Ribeiro, C., Lopes dos Santos, A., Marie, D., Le Gall, F., Probert, I., Tragin, M., Gourvil, P. et al. Cultures from the Edge: a glimpse into the diversity of Arctic phytoplankton. In ICOP Meeting. Praha, Czeck Republic.
- 2017 Galindo, V., Gosselin, M., Ferland, J., Mundy, C., Vaultot, D., Raimbault, P., Campbell, K. et al. Differences in production regimes of simulated under-ice blooms during Arctic spring. In 2017 Arctic Change Conference.
- 2017 Gérikas Ribeiro, C., Lopes dos Santos, A., Marie, D., Brandini, F.P., Vaultot, D. Relationships between photosynthetic eukaryotes and nitrogen-fixing bacteria off Brazil. In International Phycological Congress 11. Szczecin, Poland.
- 2017 Gutierrez-Rodriguez, A., Stukel, M.R., Lopes dos Santos, A., Biard, T., Vaultot, D., Landry, M.R., Not, F. Protistan plankton diversity and species-specific contribution to oceanic carbon export in the California Current Ecosystem (CCE) revealed by DNA Metabarcoding. In ASLO Meeting.

- 2017 Mordret, S., Piredda, R., Vaultot, D., Montresor, M., Zingone, A., Kooistra, W.H.C.F., Sarno, D. DinoREF : an updated and curated dinoflagellate (Dinophyceae) reference database for the 18S rRNA gene region. In DINO11 - 11th International Conference on Modern and Fossil Dinoflagellates. Bordeaux.
- 2017 Egge, E., Westphal, S., Vaultot, D., Larsen, A., Bratbak, G., Moreau, H., John, U. et al. Protist community structure in Atlantic Arctic, through the year and from surface to 1000m depth as revealed by high throughput sequencing. In Arctic Frontiers. Tromsøe.
- 2016 Edvardsen, B., Egge, E.S., Vaultot, D. A global haptophyte 18S rRNA gene phylogeny including potentially novel lineages, and a curated reference sequence database for taxonomic assignment of metabarcodes. In EMBO Symposium : A New Age of Discovery for Aquatic Microeukaryotes. Heidelberg.
- 2016 Tragin, M., Lopes dos Santos, A., Vaultot, D. Diversity of green micro-algae (Chlorophyta) in marine waters. In EMBO Symposium : A New Age of Discovery for Aquatic Microeukaryotes. Heidelberg.
- 2016 Egge, E.S., Westphal, S., Vaultot, D., Larsen, A., Bratbak, G., Moreau, H., John, U. et al. Protists in the cold (and dark): diversity and dynamics throughout the Arctic year, from 0 to-1000m depth. In EMBO Symposium : A New Age of Discovery for Aquatic Microeukaryotes. Heidelberg.
- 2015 Jobard, M., Marie, D., Vaultot, D., Domaizon, I., Sime-Ngando, T., Debroas, D., Lepere, C. Functional role of overlooked tiny parasites in lacustrine ecosystems: a single cell approach. ASLO Aquatic Sciences Meeting, Granada Feb 2015.
- 2015 Kuwata, A., Ichinomiya, M., Yoshikawa, S., Yamada, K., Kawachi, M., Saitoh, K., Nakamura, Y., Sato, N., Tajima, N., Sawada, K., De Vargas, C., Lopes dos Santos, A., Vaultot, D. Exploring the evolutionary link between Parmales and the success of diatoms in marine ecosystems. ASLO Aquatic Sciences Meeting, Granada Feb 2015.
- 2015 Lopes dos Santos, A., Gourvil, P., Romac, S., Pollina, T., Corre, E., Rodriguez-Hernandez, F., Garrido, J.L., Audic, S., de Vargas, C., Vaultot, D. Ecological diversity of prasinophytes clade VII, the dominant green algae in open oceans. ASLO Aquatic Sciences Meeting, Granada Feb 2015.
- 2015 Vaultot, D., Lopes dos Santos, A., Pollina, T., Corre, E. Picoeucaryote metagenomes from the South-Eastern Pacific Ocean . ASLO Aquatic Sciences Meeting, Granada Feb 2015.
- 2013 Vaultot D., Lopes dos Santos A., Picoeucaryote metagenomes from the Pacific Ocean. Marine algae from biodiversity to biotechnology - Workshop of the CNRS GDRI on Algae, 28 -30 October 2013, Ilhabela, São Paulo, Brazil.
- 2013 Lopes dos Santos A., De Vargas C., Audic S., Vaultot D., Diversity and metagenomics of oceanic prasinophytes. ICOP XIV - International Congress of Protistology, July 28-August 2 2013, Vancouver.
- 2012 Trefault N., De la Iglesia R., Egas C., Encina G., Henríquez C., Santibañez F., Vaultot D., Diversity and community composition of microbial photosynthetic eukaryotes in Fildes Bay, King George Island, Antarctica. SCAR Open Science Conference, 16-19 July 2012, Portland, Oregon.
- 2012 Vaultot D., Lepère C., Toulza E., De la Iglesia R., Poulain J., Gaboyer F., Moreau H., Vandepoele K., Ulloa O., Gavory F., Piganeau G., Metagenomes of the picoalga Bathycoccus from the Chile coastal upwelling. Gordon Research Conference, June 24-29, 2012, Lucca.
- 2011 Vaultot D., Metagenomes of the picoalga Bathycoccus from the Chile upwelling. Conférence Jacques Monod - Integrative ecological genomics, October 15-19, 2011, Roscoff.
- 2011 Balzano S., Marie D., Gourvil P., Vaultot D., Distribution of nano- and pico-eukaryotic phytoplankton in Beaufort Sea. ASLO Aquatic Sciences Meeting, 13-18 February 2011, San Juan, Puerto Rico · USA.
- 2011 Kawachi M., Noel M.-H., Demura M., Vaultot D., Picoplankton diversity in cryopreserved environmental samples. Japansee Phycological Society meeting, Arpil 2011, Toyama, Japan.

- 2011 Eikrem W., Jouenne F., Andersen R.A., O' C.J., Gall F.L., Vaultot D., Green, coccoid picoplankton from mesotrophic oceanic areas: a new clade of green algae. 5th European Phycological Congress, 4-9/9/2011, Rhodes Island, Greece.
- 2010 Lepère C., Demura M., Kawachi M., Romac S., Scanlan D.J., Vaultot D., Whole Genome Amplification of environmental populations of photosynthetic picoeukaryotes sorted by flow cytometry. Society for General Microbiology Spring 2010 Meeting, 29 March - 1 April 2010, Edinburgh.
- 2009 Lepère C., Shi X.L., Marie D., Scanlan D.J., Vaultot D., Diversité des picoeukaryote photosynthétique dans l'Océan Pacifique Sud : approche métagénomique. Association Francophone d' Microbienne (AFEM) Meeting, 30 August-1 September 2009, Lyon, France.
- 2009 Ota S., Viprey M., Vaultot D., Diversity of chlorarachniophytes in the Mediterranean Sea. International Phycology Congress, August 2009, Tokyo.
- 2008 Eikrem W., Jouenne F., Johnsen G., Le Gall F., Marie D., Vaultot D., Green non-motile picoplankton, phylogeny, pigments and fine-structure. (Poster) World Conference on Marine Biodiversity, 10-15 november 2008, Valencia.
- 2008 Shi X.L., Marie D., Jardillier L., Vaultot D., Novel groups of photosynthetic picoeukaryotes in the South East Pacific Ocean uncovered from flow cytometry sorted samples. (Poster) Gordon Research Conference on Marine Microbes, 13-18 July 2008, Il Coccio, Italy.
- 2008 Probert I., Le Gall F., Jalabert F., Gourvil P., Marie D., Vaultot D., The Roscoff Culture Collection (RCC) : current status and perspectives. (Poster) Algal Culture Collections 2008, June 8-11 2008, Oban.
- 2007 Vaultot D., Shi X., Viprey M., Marie D., Novel approaches to analyze the diversity of marine eukaryotic picophytoplankton. (Poster) Jacques Monod Conference - Environmental genomics : from individual genomes to genomes of complex communities, 9-13 June 2007, Roscoff.
- 2007 Jouenne F., Vaultot D. Plankton\*Net : an open-access iconographic and taxonomic database. From the microscope to the internet. (Poster) 45ème colloque des Protistologues de Langue Française, 29-31 may 2007, Roscoff.
- 2007 Masquelier S., Vaultot D., Distribution of micro-organisms along a South-East Pacific transect (BIOCOPE cruise 2004) from epifluorescence microscopy. (Poster) 45ème colloque des Protistologues de Langue Française, 29-31 may 2007, Roscoff.
- 2006 Kraberg A., Vaultot D., Patterson D.H., Ardelean A., Amorim A., Probert I., Young J., Moita T., Wiltshire K.H. PLANKTON\*NET A distributed online taxonomic database system - Its benefits for Harmful Algal Research. 12th International Conference on Harmful Algae, 4-8 September 2006, Copenhagen, Denmark.
- 2006 Not F., Viprey M., Vaultot D., Worden A., Moon-van der Staay S.Y., Massana R., Diversity of "Radiolarian" sequences in the pico size fraction. Gordon Research Conference series : Marine Microbes, July 2006, University of New England, Biddeford, ME, USA.
- 2006 Viprey M., Vaultot D., Picoeukaryote diversity in Mediterranean Sea studied by molecular approaches with a special emphasis on Chlorophyta. (Poster) Symposium "Unravelling the algae - the past, present and future of algal molecular systematics", April 2006, Natural History Museum, London, UK.
- 2003 Eikrem, W., Romari. K., Le Gall, F., Latasa, M., Throndsen, J., Vaultot, D. - *Florenciella parvula* gen. and sp. nov. (Dictyochophyceae, Heterokontophyta) a small flagellate isolated from the English Channel. European Phycology Congress, Belfast July 2003
- 2003 Vaultot D. The PICODIV project. Biodiversity Cluster meeting, Brussels, July 2003
- 2003 Vaultot D. and the PICODIV participants. The unsuspected diversity of marine eukaryotic picoplankton: results from the european PICODIV program. Ocean Biogeochemistry and Ecosystem Analysis. International Open Science Conference. Paris 7-10 January 2003.
- 2002 Mary, I., Tu, C.- J., Vaultot, D. and Grossman A. R. Analysis of stress response in cyanobacteria. European Workshop on the Molecular Biology of Cyanobacteria. Summer School Cyanofix: "Cyanobacteria and Nitrogen Fixation in Extreme Environments", Svalbard, Norway. (July 2002).

- 2002 Mary, I., Tu, C.- J., Vaultot, D. and Grossman A. R. Analysis of stress response in cyanobacteria. European Workshop on the Molecular Biology of Cyanobacteria. Stockholm, Sweden (June 2002).
- 2002 Mary, I., Tu, C.- J., Vaultot, D. and Grossman A. R. Analysis of stress response in cyanobacteria. Micro-organisms and Environment. Rennes, France (January 2002).
- 2002 Biegala I. C., Not F., Romari K., Marie D., Vaultot D., Simon N. 2002 Quantitative assessment of picoeukaryotes using taxon specific oligonucleotide probes in association with TSA-FISH (Tyramide Signal Amplification - Fluorescent In Situ Hybridization) and flow cytometry 8th Symposium on Aquatic Microbial Ecology. Taormina ( Messina ), Italy. October 25 - 30, 2002
- 2002 Vaultot D. Le Gall F., Guillou L., Partensky F. The Roscoff Culture Collection (RCC): a collection dedicated to marine picoplankton. Culture Collections of Algae: increasing accessibility and exploring algal biodiversity. Göttingen, Sept 2-6 2002
- 2002 Elizabeth A Smith, Susan Gallacher, Linda K. Medlin, Daniel Vaultot, Jane Lewis, and Susana Franca. A role for bacteria in paralytic shellfish toxin production. Conference on Harmful Algae. Florida
- 2001 Biegala I, Kennaway G, Alverca E, Lennon J-F, Vaultot D, Simon N. Identification of bacteria associated with dinoflagellates using in situ hybridization and confocal microscopy. International Phycological Congress, Thessaloniki, Greece August 2001.
- 2001 Jacquet S., Havskum H., Thingstad F, Vaultot D. Effects of inorganic and organic nutrient addition on both autotrophs and heterotrophs within a coastal microbial community. ASLO Aquatic Sciences meeting. Albuquerque, New Mexico, February 12-16, 2001
- 2000 Partensky F., L. Garczarek, D. Marie, F. Bruyant, M. Babin, J. Holtzendorff, D. Vaultot and W. Hess. Diel variations of growth and photosynthesis in a *Prochlorococcus* PCC 9511 culture synchronized by a modulated light-dark cycle mimicking light conditions found in near surface oceanic waters. 10th International Symposium on Phototrophic Prokaryotes, Barcelona, 26-31 Aug 2000.
- 1999 Chrétiennot-Dinet M.J., Guillou L., Simon N., Vaultot D. A classification of coccoid and picoplanktonic Prasinophytes. 2nd European Phycological Congress, Montecatini, Italie.
- 1999 Yahel G., Sharp, J.H., Marie, D., Vaultot, D., Håse, C., Lazar, B., Genin A. Phytoplankton, bacteria and DOC removal by coral reef invertebrates. ASLO meeting Santa Fe, N. Mexico. Feb. 1999.
- 1999 Holtzendorff J., Jacquet S., Partensky F., Marie D., Bruyant F., Vaultot D., , Hess W.R. Diel oscillation of cell cycle gene expression of *Prochlorococcus* sp. in culture. 4th european workshop on the molecular biology of cyanobacteria. Berlin. Sept. 1999
- 1998 Guillou L., Chrétiennot-Dinet M.J., Medlin L., Loiseaux-de Goër S., Claustre H. and Vaultot D. A key picoplanktonic flagellate for diatom evolution. The systematics Association. The Flagellates. Birmingham.
- 1998 Vaultot D., D. Bhaya, J. Marzek, S. Karlin, A.R. Grossman. Design and Application of Differential Display Primers for *Synechocystis* PCC 6803. VIth Cyanobacterial Workshop, "Exploiting the Cyanobacterial Genome", Asilomar Conference Center Pacific Grove, California. July 24-27, 1998
- 1998 Marie D, Brussard C, Thyrrhaug R, Bratbak G, Vaultot D. Enumeration of Viruses in Marine Samples by Flow cytometry. Association française de cytométrie. Toulouse. Oct 1998.
- 1998 Marie D, Brussard C, Thyrrhaug R, Bratbak G, Vaultot D. Enumeration of Viruses in Marine Samples by Flow cytometry. Virus workshop. Bergen, Norway. June 1998.
- 1998 Yahel G, Håse C, Lazar B, Post A, Marie D, Vaultot D, Genin A. Sponges, bivalves and ascidians: a sink for phytoplankton and bacteria in coral reefs. Ocean Society meeting.
- 1997 Marie D, Jacquet S, Vaultot D. DNA and Cell Cycle analysis of marine *Synechococcus* and *Prochlorococcus* by flow cytometry. Symposium on Marine cyanobacteria and related organisms. Paris. Nov. 1997.

- 1997 Jacquet S, Lennon J-F, Marie D, Vaultot D. Dynamics of *Synechococcus* in the N. W. Mediterranean Sea. Symposium on Marine cyanobacteria and related organisms. Paris. Nov. 1997.
- 1997 García-Fernández J M, Partensky F, Hess W R., Houmard J and Vaultot D. Expression del gen *psbA* en el procariota fotosintético marino *Prochlorococcus*. XX Congress of the Spanish Society of Biochemistry and Molecular Biology (Madrid, 17-20 Sept 1997)
- 1996 Guillou L., Simon N., Campbell L., Lange M., Medlin L.K., Vaultot D. Fluorescent in situ hybridization with rRNA-targeted oligonucleotide probes for identifying picophytoplankton by flow cytometry. 1st European Phycology Congress. Köln. July 1996.
- 1996 Campbell, L, Hongbin, L., Nolla, H.A., Vaultot, D. Picophytoplankton population dynamics at station ALOHA. AGU-ASLO Ocean Sciences meeting. San Diego. Feb. 96
- 1995 Vaultot, D. and Marie, D. Daily variability of picoplankton in the Equatorial Pacific during the OLIPAC cruise. First JGOFS Science meeting. Villefranche sur Mer. May 1995.
- 1995 Vaultot, D. and Marie, D. Diel variability of picoplankton in the Equatorial Pacific Ocean. Meeting GDR 869. Structure and Dynamics of Oligotrophic Systems: evolution of concepts. Villefranche sur Mer. Jan. 1995.
- 1995 Edvardsen, B., Vaultot, D. Eikrem W. and Paasche, E. Comparison between authentic and alternate cells of *Chrysochromulina polylepis* (Prymnesiophyceae) in morphology, growth, toxicity and DNA-content. 7th International Conference on Toxic Marine Phytoplankton, Sendai, Japan, July 1995.
- 1994 Vaultot D. , Marie D., Partensky F., Olson R.J., Chisholm S.W. *Prochlorococcus* divides once a day at the Equator. AGU-ASLO Ocean Sciences meeting. San Diego. Feb. 94
- 1993 Campbell L., Nolla H.A. and Vaultot D. Microbial Biomass in the Subtropical Central North Pacific Ocean (Station ALOHA): the Importance of *Prochlorococcus*. The Oceanography Society meeting 1993.
- 1993 Dinét, M.-J., Saint-Hilaire, D. and Vaultot, D. A comparison of different strains of *Phaeocystis* from electronic microscopic observations. Prymnesiophyte conference, Plymouth, April 1993.
- 1993 Vaultot, D. , Birrien, J-L, Marie, D., Casotti, R., Veldhuis, M., Kraay, G., Dinét, M-J. *Phaeocystis* cf. *globosa*: cell size and pigment composition of cultured strains. Prymnesiophyte conference, Plymouth, April 1993.
- 1993 Edvardsen, B., Vaultot, D. and Paasche, E. Two motile stages of *Chrysochromulina polylepis* (Prymnesiophyceae) joined in a sexual life cycle. Prymnesiophyte conference, Plymouth, April 1993.
- 1993 Vaultot, D., Partensky, F. Casotti, R. Application of flow cytometric and microfluorometric DNA measurements to phytoplankton studies. ICES mar. Sci. Symp. 197: 286.
- 1992 Vaultot, D. Flow cytometry in oceanography: recent developments. Association Française de Cytométrie en Flux. Montpellier. Dec 92.
- 1992 Bidigare, R.R., Campbell, L., Ondrusek, M., Letelier, R., Vaultot, D. Characterization of picophytoplankton at Station Aloha (22°45'N, 158°W) using HPLC, flow cytometry and immunofluorescence techniques. PACON June 1992 meeting.
- 1992 Campbell, L., Bidigare, R.R., Letelier, R., Ondrusek, M., Hall, S., Tsai, B., Winn, C., Vaultot, D. Phytoplankton population structure at the Hawaii Ocean Time Series Station. ASLO Aquatic Sciences meeting.
- 1989 Partensky F. and Vaultot D. Unequal division is responsible for cell size differentiation in *Gymnodinium* cf *nagasakiense*. 4th International Conference on Living and Fossil Dinoflagellates. Woods Hole. April 1989.
- 1989 Vaultot D. and Partensky F. Picoplanktonic populations in the vicinity of the Rhône river plume. EROS Symposium, Paris, March 1989.
- 1988 Vaultot D. and Ning X. Marine cyanobacteria *Synechococcus* in the dilution zone of the Changjiang (Yangtze river, China). International Symposium on the Biogeochemistry of the Changjiang estuary and the East China Sea. Hangzhou China, March 1988.

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- 1988 Ning X., Vaultot D., Liu Zh. and Liu Zi. Standing stock and production of phytoplankton in the Changjiang (Yangtze river) estuary and the adjacent East China Sea. International Symposium on the Biogeochemistry of the Changjiang estuary and the East China Sea. Hangzhou China, March 1988.
- 1988 Vaultot D., Courties C., Birrien J.L. and Sournia A. Seasonnal evolution of ultraplankton in the English Channel. Group for Aquatic Productivity meeting in L'Houmeau (France), April 1988.
- 1988 Vaultot D., Courties C. and Neveux J. Distribution of photosynthetic prokaryotes in the Sargasso Sea. AGU meeting, San Francisco, December 1988 EOS, 69, 1107.
- 1988 Vaultot D., Courties C., Demers S. and Neveux J. Single cell chlorophyll fluorescence of cultures and natural populations: estimation of phytoplankton biomass. AGU meeting, San Francisco, December 1988 EOS, 69, 1107.
- 1987 Vaultot D. and Ning X. Photosynthetic plankton in the dilution zone of the Changjiang (Yangtze river, China). Presented at the 22nd European Marine Biology Symposium. Barcelona, Spain. August 1987.
- 1987 Partensky F., Courties C. and Vaultot D. Spontaneous cell population differentiation in cultures of the marine dinoflagellate *Gyrodinium aureolum*. IVe Congr s de l'ACF. Villefranche/Mer, France, October 1987. Biology of the Cell, supplement.
- 1986 Armbrust, E., Chisholm, S.W., Vaultot, D. and Olson, R.J. Induction of spermatogenesis in the centric diatom *T. weissflogii*. Ocean Sciences meeting AGU-ASLO. New Orleans. January 1986.
- 1984 Vaultot, D. and Olson, R.J. Phytoplankton cell cycle control by light: periodic growth. AGU-ASLO meeting. New Orleans. January 1984.
- 1984 Olson, R.J., Vaultot D., Chisholm, S.W. Marine phytoplankton distributions measured using shipboard flow cytometry. AGU meeting San Francisco. December 1984.
- 1982 Vaultot, D. and Chisholm, S.W. Population dynamics in phytoplankton cultures: the effect of generation time variability. AGU-ASLO meeting. San Antonio Texas February 1982.