

Daniel Vaultot - CV

January 25, 2022



Antarctica - January 2015

Birth	22/08/1953 in Paris (France).
Current position	Visiting Professor Nanyang Technological University, Asian School of the Environment 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

- Nov. 2018 - Oct. 2022 Visiting Professor, Asian School of Environment, Nanyang Technological University, Singapore.
- Since Oct. 2019 Directeur de Recherche Emérite (Emeritus Scientist),
Centre National de la Recherche Scientifique (CNRS), France.
- Jan. 2019 - Oct. 2019 Directeur de Recherche de Classe Exceptionnelle - 2^e échelon (Senior Scientist), Centre National de la Recherche Scientifique (CNRS), France.
- Jan. 2012 - Jan. 2019 Directeur de Recherche de Classe Exceptionnelle - 1^{er} échelon,
Centre National de la Recherche Scientifique (CNRS), France.
- Oct. 2001 - Jan. 2012 Directeur de Recherche de 1^e classe au CNRS.
- Oct. 1994 - Oct. 2001 Directeur de Recherche de 2^e 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), consulting company specialized in aquatic environments.

International mobility

- Nov. 2018 - Nov. 2020 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 Institution 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 Scientifique (France)
- 1983-1985 Whitaker Fellowship

Editorial work

2020-2023	Senior editor of The ISME Journal
2018-...	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

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

2021	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.
2019-2021	ES7023 & ES0002: Fundamentals of Data Science for Earth and Environmental Systems Science (coordinated by D. Lallemand), 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.
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 Bioresources, 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	18
PhD students	10
Master students	14

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	Shuhei 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

2020-2023	Clarence Sim, NTU ASE, Singapore, PhD (TAC) committee
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

- Bente Edvardsen, Wenche Eikrem, University of Oslo, Norway
- Nicole Trefault, Universidad Mayor, Santiago, Chile

- Adriana Lopes dos Santos, Nanyang Technological University, Singapore
- Javier del Campo, University of Miami, USA
- Andres Gutierrez-Rodriguez, NIWA, Wellington, New Zealand

Research projects

Coordination

International

2017-2019	MicrAntar (ECCOS-Chili)
2015-2018	PicoBras (COFECUB, CAPES France- Brasil)
2010	METAPICO : Génoscope
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 (Norvège)
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 in international peer-reviewed journals : **163**

Web of Science Total number of citations : **13,033** (without self-citations)
 H Factor : **63**
 Google Scholar Total number of citations : **24,619**
 H Factor : **82**

Journal ^a	IF (5 years)	Papers
Journal of Phycology	3.1	18
Applied and Environmental Microbiology	4.3	10
Limnology and Oceanography	4.0	10
The ISME Journal	11.7	7
Scientific Reports	4.6	7
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
Journal of Plankton Research	2.2	4
Biogeosciences	4.4	4
Journal of Geophysical Research Oceans	3.2	4
Plos One	3.4	4
Nature	45.0	1
Science	40.6	3
Microbiology and Molecular Biology Reviews	17.5	1
FEMS Microbiology Reviews	14.9	1
PNAS USA	10.3	1
Nucleic Acid Research	10.2	1

^aJournals with more than 4 papers or with avec IF > 10 (bold) are considered

Ten selected publications

- 2021 **Vaultot D.**, Geisen S., Mahé F., Bass D. pr2-primers: an 18S rRNA primer database for protists. **Molecular Ecology Resources** 22:168-179. DOI: 10.1111/1755-0998.13465.
- 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.
- 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.
- 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.
- 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., Töbe 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 submitted

- 2021 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* submitted.
- 2021 Jamy, M., Biwer, C., **Vaultot, D.**, Obiol, A., Jing, H., Peura, S., Massana, R. et al. 2021. Global patterns and rates of habitat transitions across the eukaryotic tree of life. *Nature Ecology and Evolution*, submitted. Deposited to bioRxiv. DOI: 10.1101/2021.11.01.466765v1

Publications in refereed journals

- 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* in press.
- 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 BD., 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., Trugin 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., G  rikas 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 Ch  nard, 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., Mor  n, 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.**, Gr  bert, 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 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.
- 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., No  l, M.-H., ..., **Vaultot D.** Chloropicophyceae, new class of picoplanktonic prasinophytes. *Sci. Rep.* 7:14019.
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- 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 Chrétiennot-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 Gérikas, 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., Gérikas 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, Université 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 Océanographique 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...)

- 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

- 2021-current PR2 primers database :
<https://app.pr2-primers.org>
- 2017-current PR2 18S rRNA database :
<https://pr2-database.org>
- 2000-current Roscoff Culture Collection database and web site :
<http://roscoff-culture-collection.org>

Data sets

- 2020 Antoine David, .. Vaultot Daniel (2020). BIOGEOCHEMICAL dataset collected during the PROSOPE cruise. SEANOE.
<https://doi.org/10.17882/71723>

Softwares and web sites

- 2017 Open source tutorials for R and metabarcoding analysis :
<https://github.com/vaultot>
- 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

2020	Vaultot, D. The Protist Ribosomal Reference Database (PR2): status and prospects. Protist.Online, Electronic Symposium on Protistology (https://protist.online/)
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

- 2022 Gutierrez-Rodriguez, A., Lopes Dos Santos, A., Gerring, A., Vaultot, D., Strzepek, R., Chiswell, S.M., Boyd, P.W. et al. 2022. 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, Cze 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. Tromsø.
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