

## Assoc Prof Adriana Lopes dos Santos

📍 Department of Biosciences, University of Oslo,  
PO Box 1066 Blindern, 0316, Oslo, Norway  
✉ [lopesas.ufrj@gmail.com](mailto:lopesas.ufrj@gmail.com), [a.l.d.santos@ibv.uio.no](mailto:a.l.d.santos@ibv.uio.no)  
🌐 <https://the-geek-lab.netlify.app/>  
🐦 [@A\\_LopesSantos](https://twitter.com/A_LopesSantos)  
🔗 [Google Scholar](#)  
🆔 0000-0002-0736-4937  
🏠 [ResearchGate](#)



## Education

### Academic Education

2006-2010, PhD in Microbiology, Federal University of Rio de Janeiro - Brazil (Brazil "sandwich" PhD scholarship with Michigan State University, USA)

2004-2006, MSc in Genetics and Molecular Biology, Federal University of Rio de Janeiro - Brazil.

2000-2004, BSc (Hons) in Biology and Genetics, Federal University of Rio de Janeiro - Brazil.

### Complementary Education

2012, [C-MORE - Microbial Oceanography Training program](#), University of Hawaii, Honolulu, United States.

2012, [ECODIM - Ecology Diversity of Marine Microorganisms VII](#), Estación Costera de Investigaciones Marinas - Pontificia Universidad Católica de Chile - Las Cruces, Chile.

## Academic Appointments

**06/2023 - current: Associate Professor at Department of Biosciences, Section AQUA, University of Oslo (Norway).**

05/2018 – 05/2023: Assistant Professor at the Asian School of Environment, Nanyang Technological University (Singapore).

11/2017 – 11/2021: Visiting Professor at Center for Genomics, Ecology & Environment, Universidad Mayor (Chile).

09/2012 – 10/2017: Postdoctoral Research Fellow at Station Biologique de Roscoff (CNRS, France).

08/2011 – 07/2012: Postdoctoral Research Fellow at Oceanographic Institute, University of São Paulo (Brazil).

01/2011 – 08/2011: Lecturer at the Department of Biomedicine at Catholic University of Petrópolis (Brazil)

## Academic Supervision and Mentoring

### Graduate students

2022 - 2026 - Matthew Walker (PhD candidate), Microalgae genomics.

2020 - 2024 - Clarence Sim (PhD candidate), Plankton community structure, biogeography and dynamics in tropical and polar waters.

2020 - 2024 - Denise Ong (PhD candidate), Group-specific primary production rates.

### Undergraduate

2023 - Faith Sim Chin Yee, ASE, Final Year Project - [A global protist: dynamics of marine labyrinthulomycetes across ecosystems](#)

2022 - Bryan Teo, ASE, URECA (Undergraduate Research Experience on Campus) - [Monsoonal Variation in Singapore Labyrinthulomycetes Community](#)

2021 - David Mah, ASE, Final Year Project - [Fichtoplankton: A low-cost automatic sampler for the study of phytoplankton cell cycle](#)

2020 - David Mah, ASE, URECA (Undergraduate Research Experience on Campus)- [How does climate change affect Arctic marine productivity? Abiotic Factors and the Arctic Phytoplankton Spring Bloom](#)

2020 - Rae Chua, School of Biological Sciences, Final Year Project - [Can the diversity of Singapore Marine Planktonic Eukaryotes be uncovered using culture methods?](#)

## Invited Talks

2019 - I International Society for Microbial Ecology (ISME) Latin America meeting - Chile, "**Organelle genomes of oceanic picophytoplankters (Chloropicophyceae) reveal convergent gene losses and a variant plastid genetic code.**"

2017 - 11th International Phycological Society Congress (IPC) - Poland, "**Combining culture and metabarcoding for little known phytoplankton groups.**"

2015 - Aquatic Sciences Meeting (ASLO) - Granada, "**Ecological Diversity of prasinophytes clade VII, the dominant green algae in open oceans.**"

2013 - XIV International Congress of Protistology (ICOP) - Canada, "**Diversity and metagenomics of oceanic prasinophytes.**"

## Teaching Summary

### Course Coordinator at ASE/NTU

Module	Title	Level	Years <sup>a</sup>	Hours <sup>b</sup>	STE <sup>c</sup>
ES2304/ES7027	Microbes in natural ecosystems	Undergraduate/Graduate	AY20-1 AY21-1 AY22-1	39	4.01(AY20) 4.70(AY21) 4.85(AY22)
ES3303	Environmental Biotechnology	Undergraduate	AY18-2 AY21-2	39	4.78(AY18), NA(AY21) <sup>d</sup>
ES7015/7018 <sup>e</sup>	Highlights in Plankton Ecology	Graduate	AY20	39	NA
ES7015/7018	Plankton Community analysis with dada2 & Phyloseq	Graduate	AY19	39	NA

<sup>a</sup>Academic Year and semester taught

<sup>b</sup>Class Teaching hours, 3h a week x 13 weeks

<sup>c</sup>Student's Teaching Evaluation, max score = 5

<sup>d</sup>Not released yet

<sup>e</sup>Supervised Independent Studies are dependent on the research interests of graduate student and professor research expertise. These courses are not subjected to students evaluation.

### Co-teaching at ASE/NTU

Module	Title	Level	Years <sup>a</sup>	Hours <sup>b</sup>	STE <sup>c</sup>
ES7002	Research Skills	Graduate	AY19-1 AY20-1 AY21-1	39	4.81(AY19) 4.82(AY20) 4.91(AY21)

<sup>a</sup>Academic Year and semester taught

<sup>b</sup>Class Teaching hours, 3h a week x 13 weeks

<sup>c</sup>Student's Teaching Evaluation, max = 5, NA = not available

**Summer schools & International Courses**

Year	Course Title	Classes	Time <sup>a</sup>	Location
2019	<a href="#">12th Advanced Phytoplankton Course</a>	Species concept in marine prasinophytes	1 week	Station Biologique de Roscoff, France
2014	International Phytoplankton course	Planktonic Chlorophyta, Introduction to Molecular Biology methods in plankton Ecology and Molecular Phylogenies (practical session)	2 weeks	Federal University of Rio de Janeiro, Brazil
2014	<a href="#">ECODIM</a> -Ecology and Diversity of Marine Microorganisms	Planktonic Chlorophyta and Metabarcoding Analysis (Practical session)	3 weeks	University of Concepción, Chile
2013	Metagenomics, Marine Ecological and Evolutionary Genomics of marine microbes	MG-RAST for microbial eukaryotes metagenomes analysis (practical session)	4h	Station Biologique de Roscoff, France

<sup>a</sup>Time includes lectures and/or practical sessions

**Recent Cruises and Field Work**

October 2018 - [TAN1810, SalpPOOP \(Salp and Particle expOrt Ocean Production\) voyage, Chatham Rise \(Southwest Pacific Ocean, New Zealand\)](#)

June 2016 - [Green Edge Ice Camp, Arctic, Qikiqtarjuaq \(Nunavut, Canada\)](#)

January 2015 - Field work at Escudero Chilean Station (King George Island, Antarctica)

## List of Publications

Total number of publications: 43

Total number of publications as main author<sup>1</sup>: 12

Total number of citations (Google Scholar July 2023): 1791

H-index factor (Google Scholar July 2023): 23

### Book Chapter

**Lopes dos Santos, Adriana**, C. Ribeiro Gérikas, D. Ong, L. Garczarek, X. L. Shi, S. Nodder, D. Vaultot, and A. Gutierrez-Rodriguez (2022b). Phytoplankton Diversity and Ecology through the Lens of High Throughput Sequencing Technologies. *Advances in Phytoplankton Ecology: Applications of Emerging Technologies*. Elsevier, 353–413.

### Published papers

Décima, M., M. R. Stukel, S. D. Nodder, A. Gutiérrez-Rodríguez, E. Selph, **Lopes dos Santos, Adriana**, K. Safi, T. B. Kelly, F. Deans, S. Morales, M. Latasa, M. Y. Gorbunov, and M. Pinkerton (2023). Salp blooms drive strong increases in passive carbon export in the Southern Ocean. *Nature Communications* 14. Number: 1 Publisher: Nature Publishing Group, 425. DOI: [10.1038/s41467-022-35204-6](https://doi.org/10.1038/s41467-022-35204-6). (Visited on 04/04/2023).

Ong, D. R. Y., A. Gutiérrez-Rodríguez, L. Garczarek, D. Marie, and **Lopes dos Santos, Adriana** (2023). Nested PCR Approach for *petB* Gene Metabarcoding of Marine *Synechococcus* Populations. *Microbiology Spectrum*, e04086–22. DOI: [10.1128/spectrum.04086-22](https://doi.org/10.1128/spectrum.04086-22). (Visited on 03/21/2023).

Gutiérrez-Rodríguez, A., **Lopes dos Santos, Adriana**, K. Safi, I. Probert, F. Not, D. Fernández, P. Gourvil, J. Bilewitch, D. Hulston, M. Pinkerton, and S. D. Nodder (2022). Planktonic Protist Diversity across Contrasting Subtropical and Subantarctic Waters of the Southwest Pacific. *Progress in Oceanography* 206, 102809. DOI: [10.1016/j.pocean.2022.102809](https://doi.org/10.1016/j.pocean.2022.102809).

Metz, S., P. Huber, V. Accattatis, **Lopes dos Santos, Adriana**, E. Bigeard, F. Unrein, A. Chambouvet, F. Not, E. Lara, and M. Devercelli (2022). Freshwater Protists: Unveiling the Unexplored in a Large Floodplain System. *Environmental Microbiology* n/a. DOI: [10.1111/1462-2920.15838](https://doi.org/10.1111/1462-2920.15838).

Moynihan, M. A., N. F. Goodkin, K. M. Morgan, P. Y. Y. Kho, **Lopes dos Santos, Adriana**, F. M. Lauro, D. M. Baker, and P. Martin (2022). Coral-Associated Nitrogen Fixation Rates and Diazotrophic Diversity on a Nutrient-Replete Equatorial Reef. *The ISME Journal* 16, 233–246. DOI: [10.1038/s41396-021-01054-1](https://doi.org/10.1038/s41396-021-01054-1).

Vaultot, D., C. W. H. Sim, D. Ong, B. Teo, C. Biwer, M. Jamy, and **Lopes dos Santos, Adriana** (2022). metaPR2: 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>.

Villanueva, E. M. F., P. K. Lim, J. J. J. Lim, S. C. Lim, P. Y. Lau, K. T. S. Koh, E. Tan, R. S. Kairon, W. A. See, J. X. Liao, K. M. Hee, V. Vijay, I. Maitra, C. J. Boon, K. Fo, Y. T. Wang, R. Jaya, L. A. Hew, Y. Y. Lim, W. Q. Lee, Z. Q. Lee, H. Foo, **Lopes dos Santos, Adriana**, and M. Mutwil (2022). Protist.Guru: A Comparative Transcriptomics Database for Protists. *Journal of Molecular Biology*, 167502. DOI: [10.1016/j.jmb.2022.167502](https://doi.org/10.1016/j.jmb.2022.167502).

Wen, K. C. Y., F. R. Tanoto, and **Lopes dos Santos, Adriana** (2022). Cold-Loving Bacteria Can Survive in the Ice. *Frontiers for Young Minds*. Core Concept Article. URL: <https://kids.frontiersin.org/articles/10.3389/frym.2022.812556>.

Magalhães, K., **Lopes dos Santos, Adriana**, D. Vaultot, and M. Cabral Oliveira (2021). Hemiselmis Aquamarina Sp. Nov. (Cryptomonadales, Cryptophyceae), a Cryptophyte with a Novel Phycobiliprotein Type (Cr-PC 564). *Protist* 172, 125832. DOI: [10.1016/j.protis.2021.125832](https://doi.org/10.1016/j.protis.2021.125832).

Trefault, N., R. De la Iglesia, M. Moreno-Pino, **Lopes dos Santos, Adriana**, C. Gérikas Ribeiro, G. Parada-Pozo, A. Cristi, D. Marie, and D. Vaultot (2021). Annual Phytoplankton Dynamics in Coastal Waters from Fildes Bay, Western Antarctic Peninsula. *Scientific Reports* 11, 1–16. DOI: [10.1038/s41598-020-80568-8](https://doi.org/10.1038/s41598-020-80568-8).

<sup>1</sup>This list includes: first author, authorship shared equally and last author of published papers

- Gérikas Ribeiro, C., **Lopes dos Santos, Adriana**, P. Gourvil, F. L. Gall, D. Marie, M. Tragin, I. Probert, and D. Vaultot (2020a). Culturable Diversity of Arctic Phytoplankton during Pack Ice Melting. *Elementa: Science of the Anthropocene* 8, 642264. DOI: [10.1525/elementa.401](https://doi.org/10.1525/elementa.401).
- Gérikas Ribeiro, C., **Lopes dos Santos, Adriana**, I. Probert, D. Vaultot, and B. Edvardsen (2020b). Taxonomic Reassignment of Pseudohaptolina Birgeri Comb. Nov. (Haptophyta). *Phycologia* 59, 606–615. DOI: [10.1080/00318884.2020.1830255](https://doi.org/10.1080/00318884.2020.1830255).
- Massicotte, P. et al. (2020). 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](https://doi.org/10.5194/essd-12-151-2020).
- Yau, S., **Lopes dos Santos, Adriana**, W. Eikrem, C. Gérikas Ribeiro, P. Gourvil, S. Balzano, M.-L. Escande, H. Moreau, and D. Vaultot (2020). Mantoniella Beaufortii and Mantoniella Baffinensis Sp. Nov. (Mamiellales, Mamiellophyceae), Two New Green Algal Species from the High Arctic. *Journal of Phycology* 56, 37–51. DOI: [10.1111/jpy.12932](https://doi.org/10.1111/jpy.12932).
- Chénard, C., W. Wijaya, D. Vaultot, **Lopes dos Santos, Adriana**, P. Martin, A. Kaur, and F. M. Lauro (2019). Temporal and Spatial Dynamics of Bacteria, Archaea and Protists in Equatorial Coastal Waters. *Scientific Reports* 9, 16390. DOI: [10.1038/s41598-019-52648-x](https://doi.org/10.1038/s41598-019-52648-x).
- Cypriano, J., J. Werckmann, G. Vargas, **Lopes dos Santos, Adriana**, K. T. Silva, P. Leão, F. P. Almeida, D. A. Bazylinski, M. Farina, U. Lins, and F. Abreu (2019). Uptake and Persistence of Bacterial Magnetite Magnetosomes in a Mammalian Cell Line: Implications for Medical and Biotechnological Applications. *Plos One* 14, e0215657. DOI: [10.1371/journal.pone.0215657](https://doi.org/10.1371/journal.pone.0215657).
- Gutierrez-Rodriguez, A., M. R. Stukel, **Lopes dos Santos, Adriana**, T. Biard, R. Scharek, D. Vaultot, M. R. Landry, and F. Not (2019). High Contribution of Rhizaria (Radiolaria) to Vertical Export in the California Current Ecosystem Revealed by DNA Metabarcoding. *The ISME Journal* 13, 964–976. DOI: [10.1038/s41396-018-0322-7](https://doi.org/10.1038/s41396-018-0322-7).
- Metz, S., **Lopes dos Santos, Adriana**, M. C. Berman, E. Bigeard, M. Licursi, F. Not, E. Lara, and F. Unrein (2019). Diversity of Photosynthetic Picoeukaryotes in Eutrophic Shallow Lakes as Assessed by Combining Flow Cytometry Cell-Sorting and High Throughput Sequencing. *FEMS Microbiology Ecology* 95, 1–12. DOI: [10.1093/femsec/fiz038](https://doi.org/10.1093/femsec/fiz038).
- Turmel, M., **Lopes dos Santos, Adriana**, C. Otis, R. Sergerie, and C. Lemieux (2019). Tracing the Evolution of the Plastome and Mitogenome in the Chloropicophyceae Uncovered Convergent tRNA Gene Losses and a Variant Plastid Genetic Code. *Genome Biology and Evolution* 11, 1275–1292. DOI: [10.1093/gbe/evz074](https://doi.org/10.1093/gbe/evz074).
- Gérikas Ribeiro, C., **Lopes dos Santos, Adriana**, D. Marie, F. Pereira Brandini, and D. Vaultot (2018). Small Eukaryotic Phytoplankton Communities in Tropical Waters off Brazil Are Dominated by Symbioses between Haptophyta and Nitrogen-Fixing Cyanobacteria. *The ISME Journal* 12, 1360–1374. DOI: [10/gdg9hd](https://doi.org/10/gdg9hd).
- Kuwata, A., K. Yamada, M. Ichinomiya, S. Yoshikawa, M. Tragin, D. Vaultot, and **Lopes dos Santos, Adriana** (2018). Bolidophyceae, a Sister Picoplanktonic Group of Diatoms – a Review. *Frontiers in Marine Science* 5. DOI: [10.3389/fmars.2018.00370](https://doi.org/10.3389/fmars.2018.00370).
- Egas, C., C. Henríquez-Castillo, N. Delherbe, E. Molina, **Lopes dos Santos, Adriana**, P. Lavin, R. De La Iglesia, D. Vaultot, and N. Trefault (2017). Short Timescale Dynamics of Phytoplankton in Fildes Bay, Antarctica. *Antarctic Science* 29, 217–228. DOI: [10.1017/S0954102016000699](https://doi.org/10.1017/S0954102016000699).
- Lopes dos Santos, Adriana**, P. Gourvil, M. Tragin, M.-H. Noël, J. Decelle, S. Romac, and D. Vaultot (2017a). Diversity and Oceanic Distribution of Prasinophytes Clade VII, the Dominant Group of Green Algae in Oceanic Waters. *The ISME Journal* 11, 512–528. DOI: [10.1038/ismej.2016.120](https://doi.org/10.1038/ismej.2016.120).
- Lopes dos Santos, Adriana**, T. Pollina, P. Gourvil, E. Corre, D. Marie, J. L. Garrido, F. Rodríguez, M.-H. Noël, D. Vaultot, and W. Eikrem (2017b). Chloropicophyceae, a New Class of Picophytoplanktonic Prasinophytes. *Scientific Reports* 7, 14019. DOI: [10.1038/s41598-017-12412-5](https://doi.org/10.1038/s41598-017-12412-5).



- Gérikas Ribeiro, C., **Lopes dos Santos, Adriana**, D. Marie, V. Helena Pellizari, F. Pereira Brandini, and D. Vaultot (2016a). Pico and Nanoplankton Abundance and Carbon Stocks along the Brazilian Bight. *PeerJ* 4, e2587. DOI: [10.7717/peerj.2587](https://doi.org/10.7717/peerj.2587).
- Gérikas Ribeiro, C., D. Marie, **Lopes dos Santos, Adriana**, F. Pereira Brandini, and D. Vaultot (2016b). Estimating Microbial Populations by Flow Cytometry: Comparison between Instruments. *Limnology and Oceanography: Methods* 14, 750–758. DOI: [10/f9pp22](https://doi.org/10/f9pp22).
- Ichinomiya, M., **Lopes dos Santos, Adriana**, P. Gourvil, S. Yoshikawa, M. Kamiya, K. Ohki, S. Audic, C. de Vargas, M.-H. Noël, D. Vaultot, and A. Kuwata (2016). Diversity and Oceanic Distribution of the Parmales (Bolidophyceae), a Picoplanktonic Group Closely Related to Diatoms. *The ISME Journal* 10, 2419–2434. DOI: [10.1038/ismej.2016.38](https://doi.org/10.1038/ismej.2016.38).
- Lopes dos Santos, Adriana**, P. Gourvil, F. Rodríguez, J. L. Garrido, and D. Vaultot (2016). Photosynthetic Pigments of Oceanic Chlorophyta Belonging to Prasinophytes Clade VII. *Journal of Phycology* 52, 148–155. DOI: [10.1111/jpy.12376](https://doi.org/10.1111/jpy.12376).
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- Decelle, J., S. Romac, R. F. Stern, E. M. Bendif, A. Zingone, S. Audic, M. D. Guiry, L. Guillou, D. Tessier, F. Le Gall, P. Gourvil, **Lopes dos Santos, Adriana**, I. Probert, D. Vaultot, C. de Vargas, and R. Christen (2015). PhytoREF: A Reference Database of the Plastidial 16S rRNA Gene of Photosynthetic Eukaryotes with Curated Taxonomy. *Molecular Ecology Resources* 6, 1435–1445. DOI: [10.1111/1755-0998.12401](https://doi.org/10.1111/1755-0998.12401).
- Plominsky, A. M., N. Delherbe, J. A. Ugalde, E. E. Allen, M. Blanchet, P. Ikeda, F. Santibañez, K. Hanselmann, O. Ulloa, R. D. la Iglesia, P. von Dassow, M. Astorga, M. J. Gálvez, M. L. González, C. Henríquez-Castillo, D. Vaultot, **Lopes dos Santos, Adriana**, G. van den Engh, C. Gimpe, F. Bertoglio, Y. Delgado, F. Docmac, C. Elizondo, and N. Trefault (2014). Metagenome Sequencing of the Microbial Community of a Solar Saltern Crystallizer Pond at Cahuil Lagoon, Chile. *Genome Announcements* 2, 1–2. DOI: [10.1128/genomeA.01172-14](https://doi.org/10.1128/genomeA.01172-14). Copyright.
- Rachid, C. T. C. C., **Lopes dos Santos, Adriana**, M. C. Piccolo, F. C. Balieiro, H. L. C. Coutinho, R. S. Peixoto, J. M. Tiedje, and A. S. Rosado (2013). Effect of Sugarcane Burning or Green Harvest Methods on the Brazilian Cerrado Soil Bacterial Community Structure. *PLoS ONE* 8, 1–8. DOI: [10.1371/journal.pone.0059342](https://doi.org/10.1371/journal.pone.0059342).
- Carneiro, A. R., R. T. J. Ramos, H. Dall'Agnol, A. C. Pinto, S. d. C. Soares, A. R. Santos, L. C. Guimarães, S. S. Almeida, R. A. Baraúna, D. A. das Graças, L. C. Franco, A. Ali, S. S. Hassan, C. I. P. Nunes, M. S. Barbosa, K. K. Fiaux, F. F. Aburjaile, E. G. V. Barbosa, S. M. Bakhtiar, D. Vilela, F. Nóbrega, **Lopes dos Santos, Adriana**, M. S. P. Carepo, V. Azevedo, M. P. C. Schneider, V. H. Pellizari, and A. Silva (2012). Genome Sequence of *Exiguobacterium antarcticum* B7, Isolated from a Biofilm in Ginger Lake, King George Island, Antarctica. *Journal of Bacteriology* 194, 6689–6690. DOI: [10.1128/JB.01791-12](https://doi.org/10.1128/JB.01791-12).
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Costa, L. J., N. Chen, **Lopes dos Santos, Adriana**, R. S. Aguiar, A. Tanuri, A. Plemenitas, and B. M. Peterlin (2006). Interactions between Nef and AIP1 Proliferate Multivesicular Bodies and Facilitate Egress of HIV-1. *Retrovirology* 3, 33. DOI: [10.1186/1742-4690-3-33](https://doi.org/10.1186/1742-4690-3-33).

Martínez, A. M., V. P. da Hora, **Lopes dos Santos, Adriana**, R. Mendoza-Sassi, A. Von Groll, E. A. Soares, N. D'Ávila, J. Silveira, R. G. Leal, A. Tanuri, and M. A. Soares (2006). Determinants of HIV-1 Mother-to-Child Transmission in Southern Brazil. *Anais da Academia Brasileira de Ciências* 78, 113–121. DOI: [10.1590/S0001-37652006000100011](https://doi.org/10.1590/S0001-37652006000100011).

Vargas, C., **Lopes dos Santos, Adriana**, and A. Hemerly (1999). Adaptation of the Differential Display RT-PCR Technique to Isolate Sugarcane Genes Induced by Plant Association with Endophytic Nitrogen-Fixing Bacteria. *Anais da Academia Brasileira de Ciências* 71, 515–520. URL: <https://figshare.com/s/f6b4c5d9a99c348155df>.

## Research Projects

### Coordination

#### ***SingLaby: Investigating Labyrinthulomycetes parasitism in Singapore marine ecosystems***

**Funds:** Ministry of Education - Academic Research Fund (AcRF) Tier 1 – Singapore

**Award:** 199.500,00\$ SGD ( $\approx$ 1.300.000,11\$ NOK)

**Year:** 2022-2025

**Role:** Principal Investigator

#### ***Uncovering the temporal gene expression dynamics of phytoplankton with single-cell RNA sequencing***

**Funds:** College of Science, Nanyang technological University – Singapore

**Award:** 50.000,00\$ SGD ( $\approx$ 324,051.31\$ NOK)

**Year:** 2021-2022

**Role:** Co-Principal Investigator

#### ***Green voyage : Genome evolution in the green lineage***

**Funds:** International Emerging Actions 2020 - CNRS (Centre national de la recherche scientifique) - France

**Award:** 10.000,00\$ EUR ( $\approx$ 95.199,80\$ NOK)

**Year:** 2021-2022

**Role:** Principal Investigator

#### ***New Green Genes***

**Funds:** Community Science Program - Joint Genome Institute – US

**Award:** NA<sup>2</sup>

**Year:** 2021-2024

**Role:** Principal Investigator

#### ***SIMPLE: Singapore Marine Planktonic Eukaryotes.***

**Funds:** Ministry of Education - Academic Research Fund (AcRF) Tier 1 – Singapore

**Award:** 168.000,00\$ SGD ( $\approx$ 1.088.496,04\$ NOK)

**Year:** 2019-2023

**Role:** Principal Investigator

#### ***PiSCOSouth: Picophytoplankton Study of Carbon rates in Oligotrophic waters of the South Pacific and Atlantic Oceans.***

**Funds:** FONDECYT regular – Fondo Nacional de Desarrollo Científico y Tecnológico – Chile

**Award:** 264.000.000,00 \$ CLP ( $\approx$ 2.851.100,45\$ NOK)

**Year:** 2017-2021

**Role:** Principal Investigator

### Collaboration

- 2023-2026, **REFUGE-ARCTIC: The Lincoln Sea, the last refuge of the changing Arctic Ocean**, Arctic Net (Canada) & Agence nationale de la recherche (France)
- 2023-2027, **PROSA – Unveiling Protists in polyextreme aquatic systems in Salt flats of the Atacama Desert**, FONDECYT Regular (Chile)
- 2022-2023, **Algae-Video Bursaries**, British Phycological Society (United Kingdom)
- 2017-2019, **Integrating oceanography and molecular biology to develop an Ecosystem framework for the NZ EEZ**, Catalyst Seed Grant, The Royal Society of New Zealand (New Zealand)
- 2017-2018, **MicrAntar: Inter-annual variation of Microbial Eukaryotic Communities in Antarctica**, Programme de coopération ECOS-Chili, CONICYT-CNRS (Chile & France)
- 2015-2018, **Green Edge Consortium & Expeditions**, Nunavut Arctic (Canada)
- 2013-2017, **GDRI-SUD Algae**, International Scientific Coordination Network, Institut de Recherche pour le Développement (France)

<sup>2</sup>The award includes 50 complete annotated genomes obtained by using Illumina and PacBio technologies. Three to five transcriptomes for annotation per strain is also included. No funds are shared between the institutions.



**Academic Services**

2023 - 2025, [Nominating Committee member of the International Society of Protistologists \(ISOP\)](#).

2020 - 2022, Assistant Chair—Graduates, Asia School of Environment, Nanyang Technological University

2021 - 2024, [Microbiology Spectrum Editor](#)

2019 - 2021, Department Seminar Coordinator, Asia School of Environment, Nanyang Technological University.

2018 - 2020, Speaker Coordinator for [Joint Academic Microbiology Seminar](#).

2020 - Meeting Organizer: [Electronic Symposium on Protistology – Oceania Asia](#).

Reviewer for Aquatic Microbial Ecology, Environmental Microbiology, Frontiers in Marine Science, Harmful Algae, Nature Ecology and Evolution, Nature Microbiology, Plos One, Scientific Reports, Limnology and Oceanography, Journal of Phycology, Biogeosciences, The ISME Journal.