

Frédéric Partensky: Scientific production (Till March 2019)

Databases

- **Cyanorak** (<http://www.sb-roscoff.fr/cyanorak/>): Database dedicated to the annotation and analysis of marine picocyanobacteria. Scientific coordinators : L. Garczarek & F. Partensky
- **Cyanolyase** (<http://cyanolyase.genouest.org>): Database listing all available phycobilin lyase sequences (classification, prediction of functions, prediction of the pigmentation of sequenced strains, bibliography, etc.). Scientific coordinator : F. Partensky

Articles in international peer-reviewed journals

- 103: 2019 Sanfilippo JE, Garczarek L, Partensky F & Kehoe DM. Chromatic acclimation in cyanobacteria: A diverse and widespread process for optimizing photosynthesis. **Annual Review of Microbiology**. In the press. (IF=9.817)
- 102: 2019 Sanfilippo JE, Nguyen AA, Garczarek L, Karty JA, Strnat JA, Partensky F, Schluchter WM & Kehoe DM. Interplay between differentially expressed enzymes contributes to light color acclimation in marine *Synechococcus*. **Proceedings of the National Academy of Sciences of the USA**. 116(13): 6457-6462 (IF=9.504)
- 101: 2018 Partensky F, Mella-Flores D., Six C., Garczarek L., Czjzek M., Marie D., Kotabova E., Prasil O, Oxygen production rates of marine picocyanobacteria with different configurations of the oxygen evolution complex. **Photosynthesis Research** 138: 57-71 (IF=3.091)
- 100: 2018 Partensky F, Six C., Ratin M., Garczarek L., Vaultot D., Probert I., Calteau A., Gourvil P., Marie D., Grébert T., Bouchier, Le Panse S., Gachenot M., Rodríguez F. & Garrido J.L. A novel species of the marine cyanobacterium *Acaryochloris* with a unique pigment content and lifestyle. **Scientific Reports**. 8; 9152. DOI: 10.1038/s41598-018-27542-7 (IF=4.122)
- 99: 2018 Grébert T., Doré H., Partensky F, Farrant G.K., Boss E., Picheral M., Guidi L., Pesant S., Scanlan D.J., Wincker P., Acinas S.G., Kehoe D.M. & Garczarek L. Light color acclimation is a key process in the global ocean distribution of *Synechococcus* cyanobacteria. **Proceedings of the National Academy of Sciences of the USA**. 115(9): E2010-E2019 (IF=9.504)
- 98: 2018 Pittera J., Jouhet J., Breton S., Garczarek L., Partensky F, Maréchal E., Nguyen N.A., Doré H., Ratin M., Pitt F.D., Scanlan D.J. & Six C. Thermoacclimation and genome adaptation of the membrane lipidome in marine *Synechococcus*. **Environmental Microbiology**. 20:612-631 (IF=5.932)
- 97: 2017 Cuvelier M.L., Guo J., Ortiz A.C., van Baren M.J., Tariq M.A., Partensky F & Worden A.Z. Responses of the picoprasinophyte *Micromonas commoda* to light and ultraviolet stress. **PLoS One**. 12(3):e0172135. doi: 10.1371/journal.pone.0172135 (IF=2.766)
- 96: 2017 Mahmoud RM., Sanfilippo J.E, Nguyen A.A., Strnat J.A., Partensky F, Garczarek L., El-Kassem N.A. Kehoe D.M. & Schluchter M. Adaptation to blue light in marine *Synechococcus* requires MpeU, an enzyme with similarity to phycoerythrobilin lyase isomerases. **Frontiers in Microbiology** (section Microbial Physiology and Metabolism). 8:243. doi: 10.3389/fmicb.2017.00243 (IF=4.019)
- 95: 2017 Xia X., Partensky F, Garczarek L., Suzuki K., Guo C., Cheung SY & Liu H. Phylogeography and pigment type diversity of *Synechococcus* cyanobacteria in surface waters of the northwestern Pacific Ocean. **Environmental Microbiology**. 19(1) 142-158 (IF=4.974)
- 94: 2017 Pittera J., Partensky F & Six C. Adaptive thermostability of light-harvesting complexes in marine picocyanobacteria. **The ISME Journal**. 11, 1126124 (IF=9.520)
- 93: 2016 Farrant, G.K., Doré, H., Cornejo-Castillo F.M., Partensky F, Ratin M., Ostrowski M., Pitt F., Wincker P., Scanlan D.J., Iudicone D., Acinas S.G. & Garczarek L. Delineating ecologically significant taxonomic units from global patterns of marine picocyanobacteria. **Proceedings of the National Academy of Sciences of the USA**. 113(24):E3365-74. (IF=9.504)

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- 91: 2015 Farrant G.K., Hoebeke M., Partensky F., Andres G., Corre E. and L. Garczarek. WiseScaffolder: an algorithm for the semi-automatic scaffolding of Next Generation Sequencing data. **BMC Bioinformatics**. 16:281. DOI: 10.1186/s12859-015-0705-y (IF=2,435)
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- 80: 2011 Mella-Flores D., Mazard S., Humily S., Partensky F., Mahé F., Bariat L., Courties C., Marie D., Ras J., Mauriac R., Jeanthon C., Bendif E.M., Ostrowski M., Scanlan D.J. & Garczarek L. Is the

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- 75: 2009 Scanlan D. J., Ostrowski M., Mazard S., Dufresne A., Garczarek L., Hess W.R., Post A.F., Hagemann M., Paulsen I., & Partensky F. Ecological genomics of marine picocyanobacteria. **Microbiology and Molecular Biology Reviews**. 73: 249-299 (IF = 12,220)
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