

CURRICULUM VITAE

Laure Guillou

01/03/1969 in Paris (France)

Present Position: Senior Scientist (DR2) at the CNRS, France

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- **Habilitation à diriger les recherches** (06/02/2009). Université de Pierre et Marie Curie.
- **Permanent position at the CNRS since 2002.**
- **Post-doctoral position** (2000-2002). Marie Curie European grant. Institut Sciences del Mar, CSIC ICM, Barcelona, Spain.
- **Post-doctoral position** (1999-2000). Ifremer, Brest, France
- **PhD** (1999). University of Paris 6.

LANGUAGES French, Spanish, English

AWARDS

- International award in the call Phytoplanktonic diversity and Ecology (Daniel Jouvance) in 1999
- Award of excellence from the CNRS (2010-2014).

COORDINATION of projects

- 2014-2019. **Coordination of the ANR HAPAR project** (French call). 520 KE. The paradox of being a specialist for a parasite of marine blooming dinoflagellates.
- 2010-2013. **Coordination of the ANR PARALEX project** (French call). AO « The Sixth extinction ». 700 KE. Role of pathogens in the resilience of confined coastal ecosystems contaminated by invasive toxic microalgae
- 2010-2014. Coordination of the Genoscope project « Comparative and functional genomics of an eukaryotic parasite, *Amoebophrya* sp. (Syndiniales), able to specifically infect toxic and non-toxic dinoflagellates”.
- 2010-2011. Coordination of an EC2CO project (French call, Microbien). 53 KE
- 2006-2008. Coordination of an EC2CO project (French call, PNEC). 57 KE
- 2005-2007. Coordination of a project financed by the GIS Génomique Marine (French call). 70 KE.

PhD Students

- **Manon Viprey (2004-2008)**. University of Paris 6
- **Aurélie Chambouvet (2005-2009)**. University of Paris 6
- **Anne-Laure Sauvadet (2008-2010)**. University of Paris 6
- **Catharina Alves-de-Souza (2009-2011)**. University of Paris 6 and University Austral of Chile.
- **Frédéric Lepelletier (2010-2013)**. University of Paris 6
- **Aliou Dia (2010-2013)**. University of Paris 6
- **Khadidja Klouch (started in 2013)**. University of Paris 6

ORGANISATION OF INTERNATIONAL MEETING

Gordon Research Conference 'Marine Microbes' (13 to 18 of July 2008, Italy, Lucca). Chair : Pedrós-Alió C., Co-chair: L. Guillou.

EDITION

- Monitoring Editor for Protist (since 2011)

PUBLICATIONS SCI selected publications

Ramon Massana, Angélique Gobet, Stéphane Audic, David Bass, Lucie Bittner, Christophe Boutte, Aurélie Chambouvet, Richard Christen, Jean-Michel Claverie, Johan Decelle, John R. Dolan, Micah Dunthorn, Bente Edvardsen, Irene Forn, Dominik Forster, Laure Guillou, Olivier Jaillon, Wiebe H.C.F. Kooistra, Ramiro Logares, Frédéric Mahé, Fabrice Not, Hiroyuki Ogata, Jan Pawlowski, Massimo C. Pernice, Ian Probert, Sarah Romac, Thomas Richards, Sébastien Santini, Kamran Shalchian-Tabrizi, Raffaele Siano, Nathalie Simon, Thorsten Stoeck, Daniel Vaultot, Adriana Zingone, and Colomban de Vargas. Marine protist diversity in European coastal waters and sediments as revealed by high-throughput sequencing. *Environ. Microbiol.* In press

Alves-de-Souza Catharina, David Pecqueur, Emilie Le Floc'h, Sébastien Mas, Cécile Roques, Behzad Mostajir, Francesca Vidussi, Lourdes Velo-Suares, Marc Sourisseau, Eric Fouilland, and Laure Guillou (2015). Parasitic control of red tide dinoflagellates under temporary eutrophication is affected by plankton community structure. *PLoS One*. 2015; 10(6): e0127623.

Thomas G. Jephcott, Catharina Alves-de-Souza, Frank H. Gleason, Floris van Ogtrop, Téléphore Sime-Ngando, Sergey Karpov, and Laure Guillou (2015). Ecological impacts of parasitic chytrids, Syndiniales and perkinsids on populations of marine photosynthetic dinoflagellates. *Fungal Ecology*, Special edition. In press. doi:10.1016/j.funeco.2015.03.007

Frank H. Gleason, Thomas Jephcott, Frithjof C. Kuepper, Mélanie Gerphagnon, Téléphore Sime-Ngando, Sergey A. Karpov, and Laure Guillou (2015). Potential roles for newly discovered chytrid parasites in the dynamics of harmful algal blooms. *Fungal Biology reviews* 29:20-33

Johan Decelle, Sarah Romac, Rowena F. Stern, Mahdi el Bendif, Adriana Zingone, Stéphane Audic, Michael D Guiry, Laure Guillou, Désiré Tessier, Florence Le Gall, Priscillia Gourvil, Adriana Lopes dos Santos, Ian Probert, Daniel Vaultot, Colomban de Vargas Richard Christen (2015). PhytoREF: a reference database of the plastidial 16S rRNA gene of photosynthetic eukaryotes with curated taxonomy. *Molecular Ecology Resources*. doi: 10.1111/1755-0998.12401, IF=5.626

Yameng Lu, Sylke Wohlrab, Gernot Glöckner, Laure Guillou, Uwe John (2014). Genomic insights in processes driving the infection of *Alexandrium tamarense* by the parasite *Amoebophrya* sp. *Eukaryotic Cell*. 13(11):1439-49. IF=3.586

- Guillou L. (2014). On the trail of ancestors of diatoms. *J. phycol.* 50:975-976 IF = 2,801
- Lepelletier Frédéric, Sergey A. Karpov, Elisabeth Alacid, Sophie Le Panse, Estelle Bigeard, Esther Garcés, Christian Jeanthon, Laure Guillou (2014). *Dinomyces arenysensis* gen. et sp. nov. (Rhizophydiales, Dinomycetaceae fam. nov.), a chytrid infecting marine dinoflagellates. *Protist.* 165:230-244. IF = 4.14
- Dia Aliou, Guillou Laure, Mauger Stéphane, Bigeard Estelle, Marie Dominique, Valéro Myriam, Destombe Christophe (2014). Spatiotemporal changes in the genetic diversity of harmful algal blooms caused by the toxic dinoflagellate *Alexandrium minutum*. *Molecular Ecology.* 23:549-560. IF=6.275
- Frédéric Lepelletier, Sergey A. Karpov, Sophie Le Panse, Estelle Bigeard, Alf Skovgaard, Christian Jeanthon, Laure Guillou (2014). *Parvilucifera rostrata* sp. nov. (Perkinsozoa), a novel parasitoid that infects planktonic dinoflagellates. *Protist.* 165:31-49 IF = 4.14
- Guillou Laure, Bachar Dipankar, Audic Stéphane, Bass David, Berney Cédric, Bittner Lucie, Boutte Christophe, Burgaud Gaetan, de Vargas Colomban, Decelle Johan, del Campo Javier, Dolan John R., Dunthorn Micah, Edvardsen Bente, Holzmann Maria, Kooistra Wiebe H.C.F., Lara Enrique, Le Bescot Noan, Logares Ramiro, Mahé Frédéric, Massana Ramon, Montresor Marina, Morard Raphael, Not Fabrice, Pawlowski Jan, Probert Ian, Sauvadet Anne-Laure, Siano Raffaele, Stoeck Thorsten, Vaultot Daniel, Zimmermann Pascal and Christen Richard (2013). The protist Ribosomal reference database (PR2): a catalog of unicellular eukaryote small subunit rRNA sequences with curated taxonomy. *Nucleic Acids Research*, database issue, 41:D597-D604. IF: 8.026.
- Skovgaard A., Karpov S.A., Guillou L. (2012). The parasitic dinoflagellates *Blastodinium* spp. inhabiting the gut of marine, planktonic copepods: A review. *Frontiers in Microbiology.* 28 August 2012, doi: 10.3389/fmicb.2012.00305.
- Alves-de-Souza C., Varela D., Iriarte J. L., Gonzalez H., Guillou L. (2012). Infection dynamics of Amoebophryidae parasitoids on harmful dinoflagellates in a southern Chilean fjord dominated by diatoms. *Aquatic Microbial Ecology.* 66 :183-197. IF = 2,555
- Tsvetan R. Bachvaroff, Sunju Kim, Laure Guillou, Charles Delwiche, D. Wayne Coats (2011). Molecular diversity of the Syndinean genus *Euduboscquella* based on single-cell PCR analysis. *Applied and Environmental Microbiology.* 78(2):334. DOI: 10.1128/AEM.06678-11. IF = 4,516
- Alves-de-Souza C., Cornet C., Nowaczyk A., Gasparini S., Skovgaard A., Guillou L. (2011). *Blastodinium* spp. infect copepods in the ultra-oligotrophic marine waters of the mediterranean Sea. *Biogeosciences.* 8:2125-2136. IF = 3,75.
- Chambouvet A., Laabir M., Sengco M., Vaquer A., Guillou L. (2011). Genetic diversity of Amoebophryidae (Syndiniales) during the *Alexandrium catenella/tamarense* (Dinophyceae) blooms in Thau lagoon (Mediterranean Sea, France). *Research in Microbiology.* 162:959-968. IF = 2,405
- Siano R., Alves-de-Souza C., Foulon E., Bendif EIM, Simon N., Guillou L., Not F. (2011). Distribution and host diversity of Amoebophryidae parasites across oligotrophic waters of the Mediterranean Sea. *Biogeosciences.* 8 :267-278. IF = 3,621.
- Chambouvet A., Alves-de-Souza C., Cueff V., Marie D., Karpov S., Guillou L. (2011). Interplay between the parasite *Amoebophrya* sp. (Alveolata) and the cyst formation of the red tide dinoflagellate *Scrippsiella trochoidea*. *Protist.* 162:637-649. IF = 4.14
- Chambouvet A., Morin P., Marie D., Guillou L. (2008). Control of toxic marine dinoflagellate blooms by serial parasitic killers. *Science.* 322: 1254-1257. IF= 31,20
- Montagnes D. J. S., Chambouvet A., Guillou L., Fenton A. (2008). Can microzooplankton and parasite pressure be responsible for the demise of toxic dinoflagellate blooms? *Aquatic Microbial Ecology.* 53:201-210. IF = 2,555

Guillou, L., Viprey, M., Chambouvet, A., Welsh R. M., Massana, R., Scanlan D.J., Worden A. Z. (2008). Widespread occurrence and genetic diversity of marine parasitoids belonging to Syndiniales (Alveolata). *Environmental Microbiology*. 10(12): 3349-3365. IF= 5,76