

Hélène Agogué
39 years old
Woman

UMR7266 'Littoral, Envir.^{ment} et Sociétés'
CNRS - Université de La Rochelle
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17000 LA ROCHELLE

Current position : since 2009

Research scientist (CR1), CNRS
National Center for Scientific Research

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Education/Training and post-doctoral experiences

- 2009 : Post-Doctoral position, UMR6250 LIENSs, La Rochelle.
- 2006/08 : Post-Doctoral position, Netherlands Institute for Sea Research (NIOZ), Pays-Bas – Euroropean Marie Curie Fellowship.
- 2004/06 : ATER (part-time teacher/part-time post-doctoral position), Univ. Le Havre, Laboratoire d'Ecotoxicologie-Milieus Aquatiques.
- 2004 : PhD thesis, Microbial ecology, Univ. Lyon 1, 'Diversity of bacteria loacted at the sea-surface microlayer : specificity, adaptation and resistance to solar radiation', Observatoire Océanologique de Banyuls/Mer.
- 2000 : DEA (Master 2) 'Microbial ecology', Option 'Soil and Water', Univ. de Lyon 1.
- 1999 : Maîtrise (Master 1) 'Biology of organims, populations and ecosystems' Organismes, Populations et Ecosystèmes, Univ. Brest.

Expertise / Skills

- Microbial ecology : structure and fonction of archaeal and bacterial community in marine ecosystems.
- Bacteriology : conventional and traditional technique for bacterial isolation and culture , taxonomic and physiological studies.
- Phylogenetic analysis of prokaryotic community (Next Generation Sequencing)

26 peer-reviewed publications, h-index = 12, 929 citations to date (Scopus source)

Most relevant publications

2016 Jeanbille, M., Gury, J., Duran, R., Tronczynski, J., Ghiglione, J.F., Agogué, H., Ben Said, O., Taib, N., Debroas, D., Garnier, C., Auguet, J.C., 2016. Chronic Polyaromatic Hydrocarbon (PAH) Contamination Is a Marginal Driver for Community Diversity and Prokaryotic Predicted Functioning in Coastal Sediments. *Frontiers in Microbiology* 7.

2015 Hugoni, M., Agogué, H., Taib, N., Domaizon, I., Moné, A., Galand, P., Bronner, G., Debroas, D., Mary, I., 2015. Temporal Dynamics of Active Prokaryotic Nitrifiers and Archaeal Communities from River to Sea. *Microbial Ecology* 70, 473-483.

2014 Agogué, H., Mallet, C., Orvain, F., De Crignis, M., Mornet, F., Dupuy, C., 2014. Bacterial dynamics in a microphytobenthic biofilm: A tidal mesocosm approach. *Journal of Sea Research*. **92**, 36-45.

2014 Mallet, C., Agogué, H., Bonnemoy, F., Guizien, K., Orvain, F., Dupuy, C. Structures of benthic prokaryotic communities and their hydrolytic enzyme activities resuspended from samples of intertidal mudflats: An experimental approach. *Journal of Sea Research*. **92**, 158-169.

2014 Lavergne, C., Beaugeard, L., Dupuy, C., Courties, C., Agogué, H. An efficient and rapid method for the enumeration of heterotrophic prokaryotes in coastal sediments by flow cytometry. *Journal of Microbiological Methods* 105, 31-38.

- 2014** Yang, A., Zhang, X., Agogué, H., Dupuy, C., Gong, J., 2015. Contrasting spatiotemporal patterns and environmental drivers of diversity and community structure of ammonia oxidizers, denitrifiers, and anammox bacteria in sediments of estuarine tidal flats. **Annals of Microbiology** 65, 879-890.
- 2014** Zhang, X., Agogué, H., Dupuy, C., Gong, J. Relative abundance of ammonia oxidizers, denitrifiers, and anammox bacteria in sediments of hyper-nitrified estuarine tidal flats and in relation to environmental conditions. **Clean - Soil, Air, Water** 42, 815-823.
- 2013** Hugoni, M., Taib, N., Debroas, D., Domaizon, I., Dufournel, I.J., Bronner, G., Salter, I., Agogué, H., Mary, I., Galand, P.E., 2013. Structure of the rare archaeal biosphere and seasonal dynamics of active ecotypes in surface coastal waters. **Proceedings of the National Academy of Sciences of the United States of America** 110, 6004-6009.
- 2011** Agogué, H., Lamy, D., Neal, P.R., Sogin, M.L., Herndl, G.J., 2011. Water mass-specificity of bacterial communities in the North Atlantic revealed by massively parallel sequencing. **Molecular Ecology** 20, 258-274.
- 2008** Agogué, H., Brink, M., Dinasquet, J., Herndl, G.J. Major gradients in putatively nitrifying and non-nitrifying Archaea in the deep North Atlantic. **Nature** 456, 788-792.

Research fundings

ANR project (French National Research Agency): DZIANI : Insights into Precambrian oceans from a biogeochemical and microbiological study of a present-day analog: **Dziani** Dzaha Lake, Mayotte, 2014-2017, PI: M. Ader, € 395,000.

Total foundation biodiversity program: DZAHA : Microbial diversity and ecological stability of the highly alkaline and saline lake : the **Dziani** Dzaha Lake, Mayotte, 2014-2017, PI: C. Leboulanger, € 80,000.

National CNRS/EC2CO project: **CaPABioC** Role and functional characterization of prokaryotic communities associated to microphytobenthic biofilm in nitrogen cycle of intertidal mudflat, 2012-2014, PI: H. Agogué, € 27,500.

ACI program (University of La Rochelle): Functional study of bacteria and archaea associated to microphytobenthic biofilm, 2013, PI: H. Agogué, 35,000€

Research supervision

Research Supervision as Principle Investigator at LIENSs (2009– to-date)

Undergraduate: 7 students

Post-graduate: 1 PhD students

2 MSc students

Post-doctoral researcher: Dr. Yanjing Song July – December 2013

Other information

- PhD External examiner : University of Brest (1) and University of Pierre et Marie Curie, Paris (2)
- Referee for 14 international peer-reviewed journals
- Co-editorial board of the special issue “Trophic Significance of microbial biofilm in tidal flats” of Journal of Sea Research (2014, volume 92, 19 publications)
- Scientific supervisor of the molecular and the cytometry core facilities at the university of La Rochelle