

Curriculum vitae

Nadine Le Bris

affiliation: UPMC- CNRS UMR8222 LECOB
Benthic Ecogeochemistry Lab.
Observatoire Océanologique de Banyuls
66650 Banyuls-sur-Mer
France

ORCID: 0000-0002-0142-4847

e-mail: lebris@obs-banyuls.fr

tel: (33)430192414

Professional cursus

2010 - present Director of the Benthic Ecogeochemistry Lab., CNRS-UPMC UMR8222
2012 - present Full professor, Université Pierre & Marie Curie (UPMC Paris 6), Banyuls
2009 - 2012 Contractual Professor, Université Pierre & Marie Curie (UPMC Paris 6)
Observatoire Océanologique de Banyuls
2003 - 2009 Senior scientist, Ifremer, Deep-sea Ecosystem Department
1999 - 2003 Ifremer. Scientist. Deep-sea Ecosystem Department
1993 - 1999 Ifremer. Scientist, Oceanographic Instrum. Department

Formation and diploma

2005 HDR (Habilitation) Marine Chemistry and biogeochemistry. University of Brest (UBO)
1993 PhD in Atmospheric Chemistry and Environmental Physics, University of Paris 7
1987 - 1989 ENS Cachan - Master in molecular physical-chemistry, Université Paris 11

Scientific publications and communications

73 articles in peer-review journals, 7 book chapters
>103 communications in international conferences
h index: 22

Research cruises

Chief scientist of 3 cruises (2002, 2010, 2012) in deep-sea vent ecology from the MAR and EPR (R/V Atalante ROV & Nautile)
Participation to 18 oceanographic cruises in deep-sea biology, ecology and geology. Including French(11), US (5) and German (2) cruises
Coordination of a deep-sea canyon long-term interdisciplinary experiment program (Western Med.) since 2010

Selected publications

L. A. Levin and **N. Le Bris**. The deep ocean under climate change. *Science* 350, 766 (2015).
German, C.R., Legendre, L.L., Sander, S.G., Niquil, N., Luther, G.W., Bharati, L., Han, X., **Le Bris, N.**, 2015. Hydrothermal Fe cycling and deep ocean organic carbon scavenging: Model-based evidence for significant POC supply to seafloor sediments. *Earth Planet. Sci. Lett.* 419, 143-153.
Nedoncelle K., Lartaud F., Contreira-Pereira L., Yücel M., Thurnherr A.M., Mullineaux L., **Le Bris N.** Bathymodiolus growth dynamics in relation to environmental fluctuations in vent habitats. *Deep-Sea Research Part I* 106, 183-193.
Contreira-Pereira L., Yücel, M. Omanovic D., **Le Bris N.** (2013) Compact autonomous voltammetric sensor for sulfide monitoring in deep sea vent habitats. *Deep-Sea Research I* 80 (2013) 47-57.

Yücel M., S. M. Sievert, C. Vetriani, D. I. Foustoukos, D. Giovannelli, **N. Le Bris** (2013) Eco-geochemical dynamics of a shallow-water hydrothermal vent system at Milos Island, Aegean Sea (Eastern Med.). *Chemical Geology* 356, 11-20

Mullineaux L. S., **N. Le Bris**, S. W. Mills, P. Henri, S. R. Bayer, R. G. Secrist, N. Siu (2012) "Detecting the influence of initial pioneers on succession at deep-sea vents" *PLoS One* 7(12), e50015.

Lartaud, C. T. S. Little, M. de Rafelis, G. Bayon, G. Dymont, B. Ildefonse, V. Gressier, Y. Fouquet, F. Gaill, **N. Le Bris** (2011). Fossil evidence for serpentinization fluids fueling chemosynthetic assemblages. *Proc. Nat. Acad. Sci.*, 108(19)7698-7703. *Highlighted in Nature Geoscience*

Le Bris N. and Duperron D. 2010. Chemosynthetic communities and biogeochemical energy pathways along the MAR: the case of *Bathymodiolus azoricus*. In "Diversity of Hydrothermal Systems on Slow-Spreading Ridges" AGU Geophysical Monograph 188, P. Rona, C. Devey, J. Dymont, B. Murton (eds). PP409-429.

Committees and working groups (since 2008)

2016 - present InterRidge Co-Chair

2015 - present Deep-Ocean Stewardship Initiative (DOSI). Member of the Advisory board and co-chair of the WG Climate change

2013 - 2015 UN World Ocean Assessment - WoA I. Member of the Group of Experts for the United Nations World Ocean Assessment I. Lead author and convener of the Chapter 'Hydrothermal vents and cold seeps'

2009 - present Coordinator of the research and training Chair 'Extreme marine environment, biodiversity and global change' of UPMC with the support of Foundation TOTAL

2013 - 2015 UN World Ocean Assessment - WoA I. Member of the Group of Experts for the United Nations World Ocean Assessment I. Lead author and convener of the Chapter 'Hydrothermal vents and cold seeps'

2013 - 2014 Lead author & steering committee member of the collective expertise report on 'the impacts of exploration and exploitation of deep-sea mineral resources'. French Ministry of Environment, Ecology and Sustainable Development and Ministry of Research.

2009 - 2013 EC-FP7 ITN SENSENET. Steering & scientific committee member. Marie Curie (FP7) International Chemical Sensor Development Network.

2009 - 2015 SCOR-InterRidge (Scientific Committee for Ocean Research). Working Group Chair 'Hydrothermal energy transfer and its impact on the ocean carbon cycles' 2007 - 2010 EC-FP7 ESF-EUROCORES EURODEEP. Collaborative Research Project 'Colonization processes in chemosynthetic ecosystems' (CHEMECO). Scientific Committee

2004 - 2008 INTERRIDGE. Working Group Chair 'Biogeochemical Interactions at Deep-sea vents'.

2004 - 2008 EC-FP6 ITN MOMARNET. Marie Curie Network 'Monitoring the mid-Atlantic Ridge'. Scientific Committee 2005 - 2009 GDR ECCHIS 'Biologie des Ecosystèmes Chimiosynthétiques'. Scientific Committee

Coordination of teaching and organisation of summers schools

2009 - present Coordinator of the course (UE 6 ECTS) PROMEX 'Deep-sea ecosystems and Extreme Marine Environment'. Included in the UPMC Master speciality Oceanography and Marine Environment (OEM) and the ERASMUS Mundus program Marine Biodiversity and Conservation.

2012 Organisation of the European summer school 'In situ sensors for exploration and experimentation in the deep-sea' SENSENET Banyuls, 29/02-2/03/12.

2007 Organisation of the international summer school. InterRidge 'Biogeochemical interaction at deep-sea vents' Woods Hole, USA.