

## CURRICULUM VITAE -Emmanuelle GESLIN

Associate professor,  
University of Angers, France

UMR 6112 CNRS LPGN-BIAF

University of Angers

2 Bd Lavoisier

49 045 Angers cedex

02 41 73 54 07

emmanuelle.geslin@univ-angers.fr

**Employment since 2002: Associate professor**, UMR 6112 LPGN, Laboratoire des Bio-Indicateurs Actuelles et Fossiles (BIAF), University Angers

### Expertises :

- Taxonomy of benthic foraminifera
- Ecology of benthic foraminifera particularly on depleted-oxygen environments
- Biological approaches by laboratory experiments
- Biological responses of foraminifera to low oxygen conditions
- Denitrification metabolism on Foraminifera

### Education

**2011:** Habilitation, Univ. Angers, “*Benthic foraminifera under natural stress (anoxia) and anthropogenic stress (pollution): experimental approaches*”

**2000-2002:** Post-doc, University of Tuebingen, Germany, « *Impact of oxygen conditions on benthic foraminifera using laboratory experimental approaches* »

**1996-1999:** PhD, University of Angers (France) and University of São Paulo (Brazil), “*Impact of environmental stresses on foraminiferal population, morphology and texture in transitional environments : use for biomonitoring* »

**1995-1996:** Master in Oceanography and Paleoceanography, Univ. Bordeaux, France

### Involvement in National and International Projects

2015-2018 Head of an International project « FRESCO » supported by Pays de la Loire

2013-2017 Projet of the Swiss National Science Foundation (with A.Meibom EPFL)

2014-2016 Head of the national project ForChlo (EC2CO CNRS)

2013-2017 Regional project Pays de la Loire - Coselmar

2012-2016 Regional project OSUNA – RS2E (Pays de la Loire)

2012-2013 Head of the national project N-ForLab (EC2CO CNRS)

2011-2014 National Project ISOFLUX, ANR

2006-2008 National Project FORCLIM, ANR

2006-2009 National Project ANR-Vulnérabilité CHACCRA-RIOMAR.Fr

2005 -2008 European Project PALEOSALT

2002-2004 National Project FORAMPROX

2000-2002 Scientific Responsible of the project LABOZBEN, DFG, Allemagne

### Publication Indices:

Number of publications in international peer-reviewed journals: 35 - Book Chapters: 5

Citations index (google scholar): H = 18, Total citations: 1289

## Production scientifique since 2010

- JAUFFRAIS T., JESUS B., METZGER E., MOUGET J.-L., JORISSEN F., and **GESLIN E.**, 2016, Effect of light on photosynthetic efficiency of sequestered chloroplasts in intertidal benthic foraminifera (*Haynesina germanica* and *Ammonia tepida*), *Biogeosciences Discuss.*, doi:10.5194/bg-2015-656, in review, 2016.
- MOJTAHID M., **GESLIN E.**, COYNEL A., GORSE L., VELLA C., DAVRANCHE A., ZOZZOLO L., BLANCHET L., BENETEAU E., MAILLET G., in press, Spatial distribution of living (Rose Bengal stained) benthic foraminifera in the Loire estuary (western France). *Journal of Sea Research*.
- CESBRON F., **GESLIN E.**, JORISSEN F., DELGARD ML., CHARRIEAU L., DEFLANDRE B., JEZEQUEL D., ANSCHUTZ P., METZGER E., in press, Vertical distribution and respiration rates of benthic foraminifera: contribution to aerobic remineralization in intertidal mudflats covered by *Zostera noltei* meadows (Arcachon Bay). *Estuarine, Coastal and Shelf Science*.
- THIBAUT DE CHANVALON A., METZGER E., MOURET A., CESBRON F., KNOERY J., ROZUEL E., LAUNEAU P., NARDELLI MP., JORISSEN F., **GESLIN E.**, 2015, Two-dimensional distribution of living benthic foraminifera in anoxic sediment layers of an estuarine mudflat (Loire estuary, France) *Biogeosciences*, 12, 6219–6234. doi:10.5194/bg-12-6219-2015
- NARDELLI MP., BARRAS C., METZGER E., MOURET A., FILIPSSON H., JORISSEN F., **GESLIN E.**, 2014, Experimental evidence for foraminiferal calcification under anoxia. *BioGeoscience* bg-2014-64.
- GESLIN E.**, BARRAS C., LANGLET D., NARDELLI M.P., KIM J.H., BONNIN J., METZGER E., JORISSEN F., 2014, Survival, reproduction and calcification of three benthic foraminiferal species in response to experimentally induced hypoxia. In "Experimental Approaches in Foraminifera: Collection, Maintenance and Experiments", Springer. Kitazato, Hiroshi; M. Bernhard, Joan (Eds.). pp. 163-195.
- CESBRON F., METZGER E., LAUNEAU P., DEFLANDRE B., DELGARD ML., THIBAUT DE CHANVALON A., **GESLIN E.**, ANSCHUTZ P., JEZEQUEL D., accepted, "High resolution 2D imaging in marine sediment pore-waters by thin-film: simultaneous measurement of dissolved iron and reactive phosphorous"; *Environmental Science & Technology*.
- LANGLET D., C. BAAL, **E. GESLIN**, E. METZGER, M. ZUSCHIN, B. RIEDEL, N. RISGAARD-PETERSEN, M. STACHOWITSCH, AND F. J. JORISSEN, 2013, Foraminiferal species responses to in situ experimentally induced anoxia in the Adriatic Sea. *BG Discuss.*, 10, 12065-12114.
- METZGER E., D. LANGLET, E. VIOLLIER, N. KORON, B. RIEDEL, M. STACHOWITSCH, J. FAGANELI, M. THARAUD, **E. GESLIN**, F. JORISSEN, 2013, Artificially induced migration of redox layers in a coastal sediment from the Northern Adriatic. *BG Discuss.*, 10, 12029-63.
- LANGLET D., **GESLIN E.**, C. BAAL, E. METZGER, F. LEJZEROWICZ, B. RIEDEL, M. ZUSCHIN, J. PAWLOWSKI, M. STACHOWITSCH, AND F. J. JORISSEN, 2013, Foraminiferal survival after long term experimentally induced anoxia. *Biogeosciences* 10, 9243-9264.
- SCHONFELD J., ALVE E., **GESLIN E.**, JORISSEN F., KORSUN S., SPEZZAFERRI S. and Members of the FOBIMO group, 2012, The FOBIMO (FORaminiferal BIO-MONitoring) initiative-Towards a standardized protocol for soft-bottom benthic foraminiferal monitoring studies. *Marine Micropaleontology* 94–95 (2012) 1–13.
- DIZ P., BARRAS C., **GESLIN E.**, REICHART G.-J., METZGER E., JORISSEN F., and BIJMA J., 2012, Incorporation of Mg and Sr and oxygen and carbon stable isotope fractionation in cultured *Ammonia tepida*. *Marine Micropaleontology* 92-93(0), 16-28.
- DENOYELLE M., **GESLIN E.**, JORISSEN F.J., CAZES, L., GALGANI, F., 2012. Innovative use of foraminifera in ecotoxicology : a marine chronic bioassay for testing potential toxicity of drilling muds. *Ecological indicators*, 12, 17-25.
- HEINZ H., MARTEN R., LINSHY VN., HAAP T., **GESLIN E.** and HEINZ-R. KOHLER, 2012, 70 kD stress protein (Hsp70) analysis in living shallow-water benthic Foraminifera. *Marine Biology Research*, 2012; 8: 677-681.
- SCHWEIZER M., JORISSEN F.J., **GESLIN E.**, 2011. Contributions of molecular phylogenetics to foraminiferal taxonomy: General overview and example of *Pseudoeponides falsobeccarii* Rouvillois, 1974. *C.R. Palevol.*, 10, 95-105.
- GESLIN E.**, RISGAARD-PETERSEN N., LOMBARD F., METZGER E., LANGLET D., JORISSEN F., 2011, Respiration rates of benthic foraminifera using oxygen microsensors. *Journal of Experimental Marine Biology Ecology*, 396 : 108-114.
- KOHO K., PIÑA-OCHOA E., **GESLIN E.**, RISGAARD-PETERSEN N., 2010, Survival and nitrate uptake mechanisms of foraminifers (*Globobulimina turgida*): laboratory experiments. *FEMS Microbiology Ecology* DOI:10.1111/j.1574-6941.2010.01010.x.
- PIÑA-OCHOA E., KOHO K., **GESLIN E.**, RISGAARD-PETERSEN N., 2010, Survival and life strategy of foraminifer, *Globobulimina turgida*, through nitrate storage and denitrification: laboratory experiments. *Marine Ecology Progress Series* 417: 39-49.

- BARRAS C., DUPLESSY J.C., **GESLIN E.**, MICHEL E., JORISSEN F. C., 2010, Calibration of  $\delta^{18}O$  of laboratory-cultured deep-sea benthic foraminiferal shells in function of temperature. *BioGeosciences Discussions*, 7 (1): 335-350.
- PIÑA-OCHOA E., HØGSLUND S., **GESLIN E.**, CEDHAGEN T., REVSBECH N.P., NIELSEN L.P., SCHWEIZER M., JORISSEN F., RYSGAARD S., RISGAARD-PETERSEN N., 2010, Widespread occurrence of nitrate storage and denitrification among foraminifera and graptolites. *PNAS* 107:1148-1153.
- DUPUY C., ROSSIGNOL L., **GESLIN E.**, PASCAL P.Y., 2010, *Ammonia tepida*: a hard-shelled foraminifera predator of mudflat meio-macrofaunal metazoan. *Journal of Foraminiferal Research*, 40 (4).