

## Dr. Frédéric Gazeau

Research scientist at the Laboratoire d'Océanographie de Villefranche (CNRS and Sorbonne University, France). Marine biologist and biogeochemist, he has a strong expertise on coastal metabolism, on the effects of ocean acidification and warming on various marine organisms, and on the use of techniques to study the effects of ocean acidification on marine communities (benthic and pelagic) in the field. He coordinated the project eFOCE (European Free Ocean CO<sub>2</sub> enrichment) from 2011 to 2014 and organized two joint mesocosm experiments in the Mediterranean Sea in the frame of the European project MedSeA (Mediterranean Sea Acidification in a changing climate). He was one of the first to study the effects of ocean acidification on marine shelled molluscs, showing the strong dependency of their capacity to build a shell with seawater pH levels.

Together with colleagues from IFREMER and from professional associations, he currently aims at building a network of seawater pH monitoring in shellfish farming areas at the French national level and eventually at the European level. Based on long-term perturbation experiments and socio-economical studies that include the participation of growers, this inter-disciplinary project will aim to observe, analyse and help manage the effect of global environmental changes on shellfish farming considering animal physiology, health, environment and economics. Frédéric Gazeau was the leader of the group "[Biodiversity and Biogeochemistry](#)" of the Laboratoire d'Océanographie de Villefranche from 2015 to 2019, and is currently member of the SOLAS-IMBER group on ocean acidification ([WG3](#)) as well as of the advisory board and of the Ocean Acidification International Coordination Centre ([OA-ICC](#)) in which he acts as the focal point for data management (see the database portal at <http://oa-icc.ipsl.fr/>) and inter-comparison exercises.