Catarina Magalhães

Assistant researcher
Interdisciplinary Centre of Marine and Environmental Research,
University of Porto
EcoBioTec Laboratory
Rua dos Bragas 289
4050-123 Porto, Portugal
Phone +351 223 401 854
cmagalhaes@ciimar.up.pt
http://www.ciimar.up.pt/
http://www.cmagalhaes.com/

Expertise

C. Magalhães is a researcher of the Interdisciplinary Center of Marine and Environmental Research (CIIMAR) of the University of Porto, Portugal. Within this center she is one of the coordinators of the EcoBioTech research group whose main topics of research include natural biogeochemical cycle of key elements, anthropogenic impacts and biotechnology tools for ecosystems recovery. C. Magalhães completed a PhD degree in Aquatic Sciences in 2006 at the University of Porto. Since then C. Magalhães is working on biogeochemistry and microbial ecology by focusing her research in understanding the natural nitrogen cycle and the microbial communities involved in the nitrogen machinery in diverse ecosystems, within four main lines of research: (i) Evaluation of the anthropogenic impact of N-biogeochemical pathways (ii) Identification of environmental constrains and controls in microbial mediate N pathways, (iii) Characterizing the recently discovered interactions between N and organic sulfur transformations (iii) Investigating the N-biogeochemistry in extreme regions of Antarctica. During her research career C. Magalhães established a number of very fruitful collaborations, namely with scientists specialized in aquatic molecular microbiology and biogeochemistry from University of Georgia (USA), University of Alabama (USA), University of Waikato (New Zealand), University of Adelaide (Australia), and the Woods Hole Oceanographic Institution (USA). She has also experience in coordination and participation in research projects

Key papers related to the COST action

Reis, I, Almeida, CMR, Magalhães, CM, Cochofel, J, Guedes, P, Basto, MC, Bordalo, AA, Mucha, AP. 2013. Bioremediation potential of microorganisms from a beach a ected by the Prestige oil spill (NW Spain). Environmental Science and Pollution Research. doi.org/10.1007/s11356-013-2365-7)

Mucha AP, Teixeira C, Reis I , Magalhães C, Bordalo AA. 2013. Response of a salt marsh microbial community to metal contamination. Estuarine Coastal and Shelf Science. 130: 81-88.

Mucha AP, Almeida CM, Magalhães C, Vasconcelos MT, Bordalo AA. 2011. Salt Marsh Plant-microorganism interaction in the presence of mixed contamination, International Biodeterioration and Biodegradation, 65: 326-333.

Magalhães C, Matos P, Machado A, and Bordalo AA. 2011 Impact of Copper on the Diversity, Abundance and Transcription of Nitrate, Nitrite and Nitrous Oxide reductase genes in estuarine sediments. FEMS Microbial Ecology. 77:274-84.

Magalhães C, Silva J, Teixeira C and Bordalo AA. 2007. Impact of trace metals on denitri cation in estuarine sediments of the Douro River estuary, Portugal. Marine Chemistry. 107: 332-341.