1. PERSONAL INFORMATION

Paco BUSTAMANTE
French and Spanish, born in Cherbourg (France) on February 9th, 1970
Business Address: Littoral, Environnement et Sociétés (LIENSs)
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2. EDUCATION

University of Caen, Caen, France:
- Bachelor in Biochemistry and applied Biology (June 1993)

University of Aix-Marseille, Marseille, France:
- Master of Sciences in Environmental Sciences (June 1994)

University of La Rochelle, La Rochelle, France:
- Ph.D. in Biological Sciences (First Class Honours, December 1998)
- Habilitation in Biological Sciences (December 2005)

3. PROFESSIONAL EXPERIENCE

1995-1998: PhD student at the University of La Rochelle
1999: Post-doctoral fellow at the International Atomic Energy Agency, Monaco
1999-2000: Research Assistant at the University of La Rochelle
2000-2005: Assistant Professor (Maître de Conférences) at the University of La Rochelle
2005-2007: Delegated researcher at the CNRS (Centre National de la Recherche Scientifique)
Since 2007: Full professor at the University of La Rochelle (2nd Class 2007-2010, 1st Cl. 2010-2014, Exceptional Cl. since 2014)
Since 2017: Senior Member of the IUF (Institut Universitaire de France)

4. SCIENTIFIC ACTIVITIES

4.1. Major fields of training and research experience

Marine ecotoxicology and ecology: Heavy metals, radionuclides and organic pollutants bioaccumulation and detoxification in marine biota; Tissue and subcellular distribution, characterisation of biological effects; transfer and fluxes of contaminants (using both stable and radioactive isotopes); determination and validation of bioindicators and biomarkers; trophic web functioning; role of top predators.

4.2. Scientific publications. **H-index Scopus: 46 with > 7200 citations and >260 papers** in international journals with peer-review committee (for details see http://lienss.univ-larochelle.fr/Bustamante-Paco-publications or http://orcid.org/0000-0003-3877-9390).

4.3. Researches abroad. 18 researches stay (from one week up to 4 months) in 7 foreign laboratories and marine stations.

4.4. Scientific communications. Over 240 communications in more than 70 international congresses and workshops.

4.5. Academic and scientific responsibilities

- Supervisor of 22 PhD theses and 24 Master Theses in ecotoxicology and ecology
- Supervisor and/or mentor of 7 post-doctoral positions in ecotoxicology and ecology
- Member of more than 100 PhD and "Habilitation" Examining Boards
- Expert for the EC for the evaluation of Integrated Projects and Networks of Excellence in the call Food quality and safety » (N° FP6-2004-FOOD-3A)
- Expert for the EC for the evaluation of Marie Curie Fellowships (Internal, Out-going and In-coming fellowships and European and International Reintegration Grants) in the FP6 and FP7
- Vice-Chairman for the EC for the evaluation of Marie Curie Fellowships (Internal, Out-going and In-coming fellowships) in the FP7
- Expert for IFS (Sweden), FCT (Portugal), FNRS (Belgium), ANR (France), BES (UK), IAEA (UN), NSERC (Canada), IAEA (UN), INACH (Chili), …..

4.6. Referee for more than 80 international scientific journals

4.7. Researches under contracts

- EC EVK3 – 2000 – 00027 BIOCET: "BIOaccumulation of persistent organic pollutants in small CETacean species in European waters: transport pathways and impact on reproduction". 2000-2003 (**FP5**)

- EC QLRT-2001-00962 CEPHSTOCK: "Cephalopod stocks in European waters: review, analysis, assessment and sustainable management". 2001-2005 (**FP5**)
- New Caledonia PNEC-Project (French National Programme on Coastal Environment) (2000-2007)
- French National Program Seine-Aval "Environment Analysis & Management" Project "Metal bioaccumulation (Ag, Cd, Hg, Pb) in the king scallop *Pecten maximus* from the Bay of Seine and Risk Assessment for Human consumers". 2004-2007
- IAEA Coordinated Research Project "Applications of Radiotracer and Radio-assay Technologies to Seafood Safety Risk Analysis". 2007-2011
- EC KBBE-2009-1-2-14 FACTS: "Sustainable use of seas and oceans: importance of foraging fish in the ecosystem". 2010-2012 (**FP6**)
- ANR CESA POLARTOP: "Contaminants in POLAR TOP predators: levels and effects of persistent organic pollutants and heavy metals on stress physiology and fitness in Antarctic seabirds". 2011-2014.
- ERAC-CT-2006-025989 REPRODUCE: "Understanding REcruitment PROcesses Using Coupled biophysical models of the pelagic Ecosystem". 2010-2012 (**FP5**)
- INTERREG program ORQUE : "Observatoire de recherche sur la qualité de l'environnement du Grand Sud Ouest européen". 2012-2014 (**INTERREG SUDOE**)
- PCIG13-GA-2013-631203 ARCTOX: "Sea-Ice shrinking and increasing human activities in the arctic: what risks for the avian biodiversity?" 2014-2017 (**FP7**)
- **PI** for the ANR ILETOP: "Impacts of Legacy and Emerging pollutants on arctic avian TOP predators". 2016-2020
- ANR ISO2MET: "ISOtopes of Metal Elements for Tracing marine METabolism". 2019-2022
- ANR APPROve: "Integrated Approach to Propose PRoteomics for biOmonitoring: accumulation, fate and multi-markers". 2019-2022
- **PI** for the Nouvelle Aquitaine project EXPO « Exposition des prédateurs de la zone intertidale aux contaminants ». 2018-2023

5. SOME RELEVANT PUBLICATIONS

- **Bustamante P,** Caurant F, Fowler SW, Miramand P (1998) Cephalopods as a vector for the transfer of cadmium to top marine predators in the North east Atlantic Ocean. *Science of the Total Environment* 220: 71-80. *Cited 223 times in Scopus*
- **Bustamante P,** Cosson RP, Gallien I, Caurant F, Miramand P (2002) Cadmium detoxification processes in the digestive gland of cephalopods in relation to accumulated cadmium concentrations. *Marine Environmental Research*, 53: 227-241. *Cited 114 times in Scopus*
- **Bustamante P,** Teyssié J-L, Fowler SW, Cotret O, Danis B, Miramand P, Warnau M (2002) Biokinetics of zinc and cadmium accumulation and depuration at different stages in the life cycle of the cuttlefish *Sepia officinalis*. *Marine Ecology Progress Series* 231:167-177. *Cited 86 times in Scopus*
- **Bustamante P**, Teyssié J-L, Fowler SW, Danis B, Cotret O, Miramand P, Warnau M (2004) Uptake, transfer and distribution of silver and cobalt in the tissues of the common cuttlefish *Sepia officinalis* at different stages of its life cycle. *Marine Ecology Progress Series*, 269: 185-195. *Cited 55 times in Scopus*
- **Bustamante P**, Lahaye V, Durnez C, Churlaud C, Caurant F (2006) Total and organic Hg concentrations in cephalopods from the North East Atlantic waters: influence of geographical origin and feeding ecology. *Science of the Total Environment*, 368: 585-596. *Cited 138 times in Scopus*
- Lacoue-Labarthe T, Martin S, Oberhänsli F, Teyssié JL, Markich S, Ross J, **Bustamante P** (2009) Effects of increased pCO_2 and temperature on trace element (Ag, Cd and Zn) bioaccumulation in the eggs of the common cuttlefish, *Sepia officinalis*. *Biogeosciences*, 6: 2561-2573. *Cited 71 times in Scopus*
- Carravieri A, Cherel Y, Blévin P, Brault-Favrou M, Chastel O, **Bustamante P** (2014) Mercury exposure in a large subantarctic avian community. *Environmental Pollution*, 190C: 51-57. *Cited 38 times in Scopus*
- Carravieri A, **Bustamante P**, Tartu S, Meillère A, Labadie P, Budzinski H, Weimerskirch H, Chastel O, Cherel Y (2014) Wandering albatross documents latitudinal variations in contaminant bioavailability in the Southern Ocean. *Environmental Science and Technology*, 48(24): 14746-14755. *Cited 39 times in Scopus*
- Fort J, Robertson GJ, Grémillet D, Traisnel G, Phillips RA, **Bustamante P** (2014) Spatial ecotoxicology: migratory Arctic seabirds are contaminated by mercury while overwintering in the Northwest Atlantic. *Environmental Science and Technology,* 48(19): 11560–11567. *Cited 47 times in Scopus*
- **Bustamante P**, Carravieri A, Goutte A, Barbraud C, Delord K, Chastel O, Weimerskirsch H, Cherel Y (2016) High feather mercury concentrations in the wandering albatross are related to sex, breeding status and trophic ecology with no demographic consequences. *Environmental Research*, 140A: 1-10. *Cited 28 times in Scopus*
- Eagles-Smith CA, Silbergeld EK, Basu N, **Bustamante P**, Diaz-Barriga F, Hopkins WA, Kidd KA, Nyland JF (2018) Modulators to mercury risk to wildlife and humans in the context of rapid global change. Ambio, 47(2): 170–197. *Cited 115 times in Scopus*