

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 (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

2017-2022: Senior Member of the Institut Universitaire de France

4. ACADEMIC RESPONSABILITIES

2002-2006, 2012-2016, 2021-2024: Member of the Scientific Council of La Rochelle University

2007-2015: Member of the Council of the Faculty of Sciences of La Rochelle University; Research Assessor between 2011 and 2015

2008-2011: Director of the Federation of Environmental Research for Sustainable Development (FR 3097 CNRS)

2012-2014: Deputy Director, then Director of UMR LIENSs

2015-2016: Vice-President for International Affairs of La Rochelle University

2012-2017: Director of the Thematic Doctoral School 523 Sciences for the Environment “Gay Lussac” between the Universities of Poitiers, Limoges and La Rochelle

Since 2018: Deputy Director of the Multidisciplinary Doctoral School 618 “Euclide” of La Rochelle University

5. SCIENTIFIC ACTIVITIES

5.1. 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.

5.2. Scientific publications. H-index Scopus: 62 with > 13000 citations and >390 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>).

Listed in the “top 2% most cited scientists” published by Stanford University for 4 consecutive years.

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

5.4. Scientific communications. Over 280 communications in more than 80 international congresses and workshops.

5.5. Scientific responsibilities

- Supervisor of 24 PhD theses and 27 Master Theses in ecotoxicology and ecology
- Supervisor and/or mentor of 7 post-doctoral positions in ecotoxicology and ecology
- Member of more than 120 PhD and “Habilitation” Examining Boards
- Expert for the European Community (FP6, FP7, H2020), IFS (Sweden), FCT (Portugal), FNRS (Belgium), ANR (France), BES (UK), IAEA (UN), NSERC (Canada), IAEA (UN), INACH (Chili), LCS (Latvia), ...
- Partner or PI of more than 30 research projects
- Referee for more than 90 international scientific journals

- Co-guest editor for a special issue in Ecotoxicology (published in November 2023)

5.6. Selected recent papers

- Cusset F, Reynolds SJ, Carravieri A, Amouroux D, Asensio O, Dickey RC, Fort J, Hughes BJ, Paiva VH, Ramos JA, Shearer L, Tessier E, Wearn CP, Cherel Y, **Bustamante P** (2023) A century of mercury: Ecosystem-wide changes drive increasing contamination of a tropical seabird species in the South Atlantic Ocean. *Environmental Pollution*, 323C: 121187.
- Annasawmy P, **Bustamante P**, Point D, Churlaud C, Romanov EV, Bodin N (2022) Trace elements and $\delta^{15}\text{N}$ values in micronekton of the south-western Indian Ocean. *Marine Pollution Bulletin*, 184C: 114053.
- Binkowski LJ, Fort J, Brault-Favrou M, Gallien F, Le Guillou G, Chastel O, **Bustamante P** (2021) Foraging ecology drives mercury contamination in chick gulls from the English Channel. *Chemosphere*, 267C: 128622.
- Manceau A, Gaillot AC, Glatzel P, Cherel Y, **Bustamante P** (2021) *In vivo* formation of HgSe nanoparticles and Hg-tetraselenolate complex from methylmercury in seabird – Implications for the Hg-Se antagonism. *Environmental Science and Technology*, 55(3): 1515-1526.
- Renedo M, Pedrero Z, Amouroux D, Cherel Y, **Bustamante P** (2021) Mercury isotopes of key tissues document mercury metabolic processes in seabirds. *Chemosphere*, 263C: 127777.
- Carravieri A, **Bustamante P**, Labadie P, Budzinski H, Chastel O, Cherel Y (2020) Trace elements and persistent organic pollutants in chicks of 13 seabird species from Antarctica to the subtropics. *Environment International*, 134C: 105225.
- Costantini D, **Bustamante P**, Brault-Favrou M, Dell’Omo G (2020) Patterns of mercury exposure and relationships with isotopes and markers of oxidative status in chicks of a Mediterranean seabird. *Environmental Pollution*, 260C: 114095.
- Renedo R, Amouroux D, Albert C, Bérail S, Brathen V, Gavrilov M, Grémillet D, Helgason H, Jakubas D, Mosbech A, Strøm H, Tessier E, Wojczulanis-Jakubas K, **Bustamante P**, Fort J (2020) Contrasting spatial and seasonal trends of methylmercury exposure pathways of Arctic seabirds: combination of large-scale tracking and stable isotopic approaches. *Environmental Science and Technology*, 54(21): 13619–13629.
- Cherel Y, Barbraud C, Lahournat M, Jaeger A, Jaquemet S, Wanless RM, Phillips RA, Thompson DR, **Bustamante P** (2018) Accumulate or eliminate? Seasonal mercury dynamics in albatrosses, the most naturally contaminated family of birds. *Environmental Pollution*, 241C: 124-135.
- Cipro CVZ, Cherel Y, Bocher P, Caurant F, Miramand P, **Bustamante P** (2018) Trace elements in invertebrates and fish communities off the Kerguelen Islands. *Polar Biology*, 41(1): 175-191.
- 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.