

## **Andrea LUNA ACOSTA**

Marine Biologist, PhD

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### **EDUCATION**

- 2010-2014 **Postdoctorates in Ecotoxicology and Tropical Ecology**  
Universidad de Los Andes and U. Jorge Tadeo Lozano (UJTL), Colombia  
Universidad del País Vasco (UPV), Spain and U. de La Rochelle (ULR), France
- 2007-2010 **PhD in Marine Biology and Ecology**  
Université de La Rochelle, France (Summa Cum Laude)
- 2005-2007 **Master in Marine Biology and Physiology**  
Université de la Méditerranée, Marseille France  
University of Texas (UT) in Austin, USA
- 2002-2005 **BSc in Cellular Biology and Physiology**  
Université Paul Sabatier (UPS), Toulouse, France

### **PROFESSIONAL EXPERIENCE**

#### **TEACHING**

- 2014- **Assistant Professor** at Pontificia Universidad Javeriana (PUJ), Colombia  
Lectures, practical courses and field activities in ecology and hydrology  
Faculty of Environmental and Rural Studies (FEAR)
- 2007-2013 **Teacher Assistant** at UJTL, Colombia and ULR, France  
Lectures and seminars in marine ecology and biochemistry
- 2007-2014 **Mentoring** of 10 BSc/MSc Research Projects and 30 Research Seed Projects

#### **RESEARCH**

- 2015- **Director of Research Projects in Aquatic Ecosystems**  
Ecology and Territory Research Group, PUJ, Colombia  
Research projects of anthropogenic impacts, especially by chemical contaminants (heavy metals, pesticides, hydrocarbons, emerging contaminants), on aquatic animals (sharks, whales, dolphins, fish and molluscs)
- 2012-2014 **Post-doctoral Researcher in Tropical Ecology**  
Molecular Ecology and Aquatic Vertebrates Laboratory, U. Andes, Colombia  
Limnology Research Group, UJTL, Colombia
- 2010-2011 **Post-doctoral Researcher in Ecotoxicology**  
Laboratory of Cellular Biology and Histopathology, UPV, Spain
- 2007-2010 **PhD Researcher in Marine Biology and Ecology**  
Laboratory of Littoral, Environment and Societies, CNRS-ULR, France
- 2005-2006 **Master Researcher in Neurosciences and Animal Behaviour**  
Institute of Neurosciences, UT in Austin, USA
- 2004 **Bachelor Researcher in Neurosciences and Animal Behaviour**  
Center of Research for Animal Cognition (CRCA), UPS, France

## SCIENTIFIC PRODUCTION

2 International Fellowships, 2 Grants and 4 Fundings by International Institutions

10 International Collaborations in Research Projects

12 Oral Communications and 13 Poster Presentations in International Congresses

### Scientific Publications:

**1 Luna-Acosta A**, Budzinski H, Le Menach K, Thomas-Guyon H, Bustamante P. Persistent organic pollutants in a marine bivalve on the Marennes-Oléron Bay and the Gironde Estuary (French Atlantic Coast) – Part 1: Bioaccumulation. *Science of the Total Environment* 514:500-510 (IF 3.163)

**2 Luna-Acosta A**, Bustamante P, Budzinski H, Huet V, Thomas-Guyon H. Persistent organic pollutants in a marine bivalve on the Marennes-Oléron Bay and the Gironde Estuary (French Atlantic Coast) – Part 2: Potential biological effects. *Science of the Total Environment* 514:511-522 (IF 3.163)

**3 Buffet PE**, Zalouk-Vergnoux A, Châtel A, Berthet B, Métails I, Perrein-Ettajani H, Poirier L, **Luna-Acosta A**, Thomas-Guyon H, Risso-de Faverney C, Guibbolini M, Gilliland D, Valsami-Jones E, Mouneyrac C, 2014. A marine mesocosm study on the environmental fate of silver nanoparticles and toxicity effects on two endobenthic species: The ragworm *Hediste diversicolor* and the bivalve mollusc *Scrobicularia plana*. *The Science of the Total Environment* 470-471:1151-1159 (IF 3.258)

**4 Buffet P-E**, Richard M, Caupos F, Vergnoux A, Perrein-Ettajani H, **Luna-Acosta A**, Akcha F, Amiard J-C, Amiard-Triquet C, Guibbolini M, Risso-De Faverney C, Thomas-Guyon H, Reip P, Dybowska A, Bernahu D, Valsami-Jones E, Mouneyrac C, 2013. A mesocosm study of fate and effects of CuO nanoparticles on endobenthic species (*Scrobicularia plana*, *Hediste diversicolor*). *Environmental Science and Technology* 47:1620-1628 (IF 5.257)

**5 Luna-Acosta A**, Thomas-Guyon H, Faury N, Saulnier D, Fruitier-Arnaudin I, Bustamante P, Renault T, 2012. Detection of early effects of a single herbicide (diuron) and a mix of herbicides and pharmaceuticals (diuron, isoproturon, ibuprofene) on immunological parameters of Pacific oyster, *Crassostrea gigas*, spat. *Chemosphere* 87:1335-1340 (IF 3.137)

**6 Bustamante P**, **Luna-Acosta A**, Clemens S, Cassi R, Thomas-Guyon H, Warnau M, 2012. Bioaccumulation and metabolism of <sup>14</sup>C-pyrene by the Pacific oyster *Crassostrea gigas* exposed via seawater. *Chemosphere* 87:938-944 (IF 3.137)

**7 Luna-Acosta A**, Saulnier D, Pommier M, Haffner P, De Decker S, Renault T, Thomas-Guyon H, 2011. First evidence of a potential antibacterial activity involving a laccase-type enzyme of the phenoloxidase system in Pacific oyster *Crassostrea gigas* haemocytes. *Fish and Shellfish Immunology* 31:795-800 (IF 2.964)

**8 Luna-Acosta A**, Kanan R, Le Floch S, Huet V, Pineau P, Bustamante P, Thomas-Guyon H, 2011. Enhanced immunological and detoxification responses in Pacific oysters, *Crassostrea gigas*, exposed to chemically dispersed oil. *Water Research* 45:4103-4118 (IF 4.655)

**9 Luna-Acosta A**, Thomas-Guyon H, Amari M, Rosenfeld E, Bustamante P, Fruitier-Arnaudin I, 2011. Differential tissue distribution and specificity of phenoloxidases from the Pacific oyster *Crassostrea gigas*. *Comparative Physiology and Biochemistry - Part B Biochemistry and Molecular Biology* 159:220-226 (IF 2.069)

**10 Luna-Acosta A**, Lefrançois C, Millot S, Chatain B, Bégout ML, 2011. Physiological response in different strains of sea bass (*Dicentrarchus labrax*): Swimming and aerobic metabolic capacities. *Aquaculture* 317:162-167 (IF 2.009)

**11 Luna-Acosta A**, Rosenfeld E, Amari M, Fruitier-Arnaudin I, Bustamante P, Thomas-Guyon H, 2010. First evidence of laccase activity in the Pacific oyster *Crassostrea gigas*. *Fish and Shellfish Immunology* 28:719- 726 (IF 2.964)

**12 Luna-Acosta A**, Bustamante P, Godefroy J, Fruitier-Arnaudin I, Thomas-Guyon H, 2010. Seasonal variation of pollution biomarkers to assess the impact on health status of juvenile Pacific oysters *Crassostrea gigas* exposed in situ. *Environmental Science and Pollution Research*. 17:999-1008 (IF 2.618)

**13 Lacoue-Labarthe T**, Bustamante P, Hörlin E, **Luna-Acosta A**, Bado-Nilles A, Thomas-Guyon H, 2009. Phenoloxidase activation in the embryo of the common cuttlefish *Sepia defincialis* and responses to Ag and Cu exposure. *Fish and Shellfish Immunology*. 27:516-521 (IF 2.964)