

## Part A. PERSONAL INFORMATION

CV date	12/09/2023
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First name	Ionan		
Family name	MARIGOMEZ ALLENDE		
Gender (*)	MALE	Birth date (dd/mm/yyyy)	22/02/1961
ID number	-----	URL Web	
e-mail	ionan.marigomez@ehu.eus	<a href="http://www.ehu.es/PIE/index.php/research/staff/environmental-toxicology-research-area/">www.ehu.es/PIE/index.php/research/staff/environmental-toxicology-research-area/</a>	
Open Researcher and Contributor ID (ORCID)	0000-0001-6274-541X		

### A.1. Current position

Position	Full Professor of Cell Biology (Catedrático Universidad) <sup>1</sup> & Director of the Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU) <sup>2</sup>		
Initial date	<sup>1</sup> 03/04/1999 & <sup>2</sup> 20/12/2012		
Institution	Universidad del País Vasco / Euskal Herriko Unibertsitatea		
Department/Center	<a href="#">Dept Zoology &amp; Animal Cell Biology / Fac Science &amp; Technology</a>	<a href="#">Plentzia Marine Station (PiE-UPV/EHU)</a>	
Country	Spain	Tel. N.	+ 34 946012690
Key words	environmental pollution monitoring, biomarkers, toxtests, marine ecosystem health indices, experimental aquatic toxicology, metals, oil spill, soil, climate change, animal comparative histology, histopathology, histochemistry, quantitative microscopy		

### A.2. Previous positions (research activity interruptions, art. 14.2.b))

Period	Position/Institution/Country/Interruption cause
1990-1999	Professor Cell Biology (Titular Univ) / UPV/EHU / Spain
1987-1990	Lecturer Cell Biology / UPV/EHU / Spain

### A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD	UPV/EHU - Extraordinary Award	1989
Masters (Grade: "Tesina")	UPV/EHU	1984
BSc Degree (Licenciatura)	UPV/EHU	1984

## Part B. CV SUMMARY (max. 5000 characters, including spaces)

**Research 6-yr terms:** 6 (last: 2016-2021)

**Transference 6-yr terms:** 1 (last: 2003-2008)

**Supervised PhDs:** 18 (15 European or International) (3 Extraordinary Award recipients)

**Total N. citations** (WoS 12/09/2023): 5092

**N. publications** in Q1 (WoS 12/09/2023): >85% (Total Art ISI: 153) (Total Publ: >220)

**H index** (WoS 12/09/2023): 44

- **SETAC Europe Outstanding Science Career Award 2020** (sponsored by Noack Laboratorien) in recognition of contribution to environmental science and outstanding record of interdisciplinary activities in dissemination of knowledge on environmental sciences.
- Listed in the **"Most Relevant Scientists of the Basque Science System"** (Basque Council of Science, Technology & Innovation - PCTI 2020; annually since 2016).
- Listed in the Stanford University Names **World's Top 2% Scientists, 2021**.

- Member (Ministerial Representative for the Cantabrian Sea Region Universities) of the Scientific Coordination Board for “Accidental Marine Spills” DGI-MICINN (2003-2007). Member of the Basque Government Board for “Prestige” Oil Response & Scientific Steering Committee Chair (2002-2005).
- Promoter and Project Leader for the creation and launching of the Centre for Experimental Marine Biology and Biotechnology – Plentzia Marine Station (PiE-UPV/EHU) 2006-2012.
- Founding Council President Sociedad Ibérica de Contaminación y Toxicología Ambientales (SICTA, 1998) and founding Member of the Latin American Society for Environmental Contamination and Toxicology (SICTA).
- External Advisory Board Member of Marine Training Platform (marinettraining.eu). External Advisory Board Member of the Applied Blue Biotechnology MSc of U La Rochelle. (EU H2020 “European Maritime & Fisheries Funds” (EMFF); Blue Careers & Blue Labs).
- Researcher in Consolidated Res Grp Cell Biology in Environmental Toxicology (CBET) since 2001. Principal investigator in >25 projects/contracts (European, National, Regional). Above 200 articles and book chapters, 2 textbooks, more than 250 congresses.
- Research stays in foreign institutions: U Wales (Aberystwyth, UK, 1988), U Heidelberg (Germany, 1992), King’s College School of Medicine & Dentistry (London, UK, 1993), the Scripps Institution of Oceanogr (USA, 2000), Nanjing U (China, 2012), City U Hong Kong (Hong Kong, 2013), Oceans Inst - UWA (Perth, Australia 2013).
- International Coordinator of the “Turquoise” Euro-regional University Hub for Blue Growth and Green Innovation in Bay of Biscay (U Bordeaux, U La Rochelle, UPV/EHU) 2016-2019. Chair and Leader of OECD World Workshop on Marine Biotechnology (Ocean Economy in 2030 OECD Prog) and invited delegate at the World Symposium at Seoul (April 2016). Member and Coordinator of the Co-creation Committee of the Euskampus (International Excellence Campus) Pole of Knowledge on Ocean Health and Valorisation (I-BLU3) 2012-2015. Promoter and Scientific Head of Biscay Bay Environmental Biospecimen Bank (BBEBB) 2010-2017.
- Director of UPV/EHU Doctoral Programmes “Contaminación y Toxicología Ambientales” (2005-2012), and “Marine Environment and Resources” (2009-today). Coordinator “MSc Contaminación y Toxicología Ambientales” (2006-2012; MEC QA) and the “European MSc Marine Environment & Resources” (Quality Award MEC, 05-12). International Coordinator and Joint Prog Board Chair of the “European MSc Marine Environmental Resources” Erasmus Mundus Master Course 2012-2016 and the “European MSc Marine Environment” Erasmus+ EMJMD programme 2017-2026. Coordinator at UPV/EHU and member of the Joint Programme Board of the Erasmus+ EMJMD Inter Master in Marine Biol. Resources (IMBRsea; Coord. U Ghent; 2016-2026).

## **Part C. RELEVANT MERITS** *(sorted by typology)*

### **C.1. Publications**

1. DeMiguel-Jiménez, L., Bilbao D, Prieto A, Reinardy HC, Lekube X, Izagirre U, Marigómez I. 2023. The influence of temperature in sea urchin embryo toxicity of crude and bunker oils alone and mixed with dispersant. *Mar Pollut Bull* 189: 114786
2. Urrutia, A; Mitsi, K; Foster, R; Ross, S; Carr, M; Ward, G; van Aerle, R; Marigomez, I; Leger, MiM; Ruiz-Trillo, I; Feist, SW; Bass, D. 2021. *Txikispora philomaios* n. sp., n. g., a micro-eukaryotic pathogen of amphipods, reveals parasitism and hidden diversity in Class Filasterea. *J Eukar Microbiol* e12875
3. DeMiguel-Jimenez L, Etxebarria N, Lekube X, Izagirre U, Marigomez I. 2021. Influence of dispersant application on the toxicity to sea urchin embryos of crude and bunker oils representative of prospective oil spill threats in Arctic and Sub-Arctic seas. *Mar Pollut Bull* 172: 112922
4. Briaudeau, T; Dos Santos, LAA; Zorita, I; Izagirre, U; Marigomez, I. 2021. Biological responses and toxicopathic effects elicited in *Solea senegalensis* juveniles by waterborne exposure to benzo[a]pyrene. *Mar Environ Res* 170: 105351

5. Blanco-Rayon, E.; Ivanina, A., V; Sokolova, I. M.; Marigomez, I; Izagirre, U. 2020. Sex and sex-related differences in gamete development progression impinge on biomarker responsiveness in sentinel mussels. *Sci Total Envir* 740: 140178.
6. Cano, I; ... Marigomez, I; (et al.); Feist, SW. 2020. Cosmopolitan Distribution of Endozoicomonas-Like Organisms and Other Intracellular Microcolonies of Bacteria Causing Infection in Marine Mollusks. *Frontiers Microbiol* 11: 577481
7. Blanco-Rayon, E; Ivanina, AV; Sokolova, IM.; Marigomez, I; Izagirre, U. 2019. Food-type may jeopardize biomarker interpretation in mussels used in aquatic toxicological experimentation. *PLOS ONE* e0220661
8. Briaudeau, T.; Zorita, I; Cuevas, N.; Franco, J.; Marigomez, I; Izagirre, U. 2019. Multi-annual survey of health status disturbance in the Bilbao estuary (Bay of Biscay) based on sediment chemistry and juvenile sole (*Solea* spp.) histopathology. *Mar Poll Bull* 145: 126-137
9. Benito, D; Ahvo, A; Nuutinen, J; Bilbao, D; Saenz, J; Etxebarria, N; Lekube, X; Izagirre, U; Lehtonen, KK; Marigomez, I; Zaldibar, B; Soto, M. 2019. Influence of season-depending ecological variables on biomarker baseline levels in mussels (*Mytilus trossulus*) from two Baltic Sea subregions. *Sci Total Envir* 689: 1087-1013
10. Aguirre-Rubi, JR; Ortiz-Zarragoitia, M; Izagirre, U; Etxebarria, N; Espinoza, F; Marigomez, I. 2019. Prospective biomonitor and sentinel bivalve species for pollution monitoring and ecosystem health disturbance assessment in mangrove-lined Nicaraguan coasts. *Sci Total Envir* 649: 186-200
11. Jørgensen, Ks; Kreutzer, A; Lehtonen, Kk; et al (15/28). 2019. The EU Horizon 2020 project GRACE – Integrated oil spill response actions and environmental effects. *Envir Sci Europe* 31: 44 (10 pp).
12. Blanco-Rayon E, Guilhermino L, Irazola M, Ivanina AV, Sokolova IM, Izagirre U, Marigomez I. 2019. The influence of short-term experimental fasting on biomarker responsiveness in oil WAF exposed mussels. *Aquat Toxicol* 206:164-175
13. Aguirre-Rubi JR; Luna-Acosta A, Ortiz-Zarragoitia M, Zaldibar B, Izagirre U, Ahrens MJ, Villamil L, Marigomez I. 2018. Assessment of ecosystem health disturbance in mangrove-lined Caribbean coastal systems using the oyster *Crassostrea rhizophorae* as sentinel species. *Sci Tot Environ*. 618: 718-735
14. Luna-Acosta A, Bustamante P, Thomas-Guyon H, Zaldibar B, Izagirre U, Marigomez I. 2017. Integrative biomarker assessment of the effects of chemically and mechanically dispersed crude oil in Pacific oysters, *Crassostrea gigas*. *Sci Tot Environ* 598: 713-721
15. Jimeno-Romero, A.; Bilbao, E.; Izagirre, U.; Cajaraville, M. P.; Marigomez, I.; Soto, M. 2017. Digestive cell lysosomes as main targets for Ag accumulation and toxicity in marine mussels, *Mytilus galloprovincialis*, exposed to maltose-stabilised Ag nanoparticles of different sizes. *Nanotoxicology* 11: 168-183
16. Jimeno-Romero, A.; Izagirre, U.; Gilliland, D.; Warley, A.; Cajaraville, M. P.; Marigomez, I.; Soto, M. 2017. Lysosomal responses to different gold forms (nanoparticles, aqueous, bulk) in mussel digestive cells: a trade-off between the toxicity of the capping agent and form, size and exposure concentration. *Nanotoxicology* 11: 658-670
17. Marigomez, I; Mugica, M; Izagirre, U; Sokolova, IM. 2017. Chronic environmental stress enhances tolerance to seasonal gradual warming in marine mussels. *PLOS ONE* e0174359
18. Marigomez, I; Soto, M; Cajaraville, MP; Angulo, E; Giamberini, L. 2002. Cellular and subcellular distribution of metals in molluscs. *Microsc Res Tech* 56: 358 – 392 (WoS citations: 326).

## C.2. Congress

1. Guest Keynote speaker: “The potential of ESB dry archives (tissue blocks, mineralised tissues) for retrospective studies of pollution effects and emerging environmental threats” *Int Conf Envir Specimen Banks; Korean Envir Dept (Incheon, Korea; Sept 28-30 2021).*

2. Guest Keynote speaker: "Integrated biological effects monitoring in the Bay of Biscay based on ICES/OSPAR core biomarkers". XVI Int Symp Oceanogr Bay of Biscay ISOBAY (Anglet (FR), June 5-7 2018).
3. Guest Keynote speaker: "Innovation in science and technology: Marine Biotechnology" OECD World Conference on the Future of the Ocean Economy: Exploring the Prospects for Emerging Ocean Industries to 2030 (Seoul, Korea; April 26-28 2016)
4. Opening Lecture: "Sentinel mussels unveil long-term trends in ecosystem health status in the Bay of Biscay" XV Int Symp Oceanog Bay of Biscay ISOBAY (Bilbao, Feb 22 2016)
5. Chair & Organiser by invitation by OECD: OECD World Workshop on Marine Biotechnology; The future of the ocean economy: exploring the prospects for emerging ocean industries to 2030, OECD (PiE-UPV/EHU; October 3-5 2015).

### **C.3. Research projects**

1. Reducing climate based health risks in blue environments: Adapting to the climate change impacts on coastal pathogens HORIZON-HLTH-2021-ENVHLTH-02- 101057764 2022-2026 UPV/EHU: 221000 € (PI: I Marigomez) Coord. M Neumann (bc3)
2. Assessing whole-Mixture toxicity of complex waterborne cocktails of chemicals formed by Marine Oil spills: an approach to uncover TOXicity produced by non-measured components (AMMONTX) MINECO PID2021-123945OB-I00 PI: I Marigómez: 212000 €
3. Nuevas perspectivas sobre las amenazas ecotoxicológicas latentes que plantean los sedimentos estuarinos crónicamente contaminados. MINECO CTM2017-87766-R 2018-2020. PIs: M Soto, I Marigómez: 180000 €
4. Association of European Marine Biological Laboratories Expanded (ASSEMBLE plus) EU H2020 INFRAIA 1/2016/2017 2017-2020. UPV/EHU: 739.673 € (PI: Cancio I); Coord I. Nardello (EMBRC): 9991000 €
5. Towards an Aquitania-Euskadi Euroregion University hub to promote blue growth and green innovation in the Bay of Biscay (TURQUOISE-00). Euskadi-Aquitania Euroregion Projects. Participants: PiE-UPV/EHU, U Bordeaux), U La Rochelle. 15/10/16-5/10/18 PI&Coord: I Marigomez: 60000 €
6. Integrated oil spill response actions and environmental effects (GRACE). H2020 Work programme topic BG-07-2015 679266. 2016-2019. Coord. K Jorgensen (SYKE), PI(UPV/EHU): I Marigomez: 380000 €
7. EMBRC preparatory phase 2-pp2-EMBRC. REF: INFRADEV-2-201515/01.EU H2020-INFRADEV-2-201515/01.2015-1017. PI: I Cancio. 71000€(UPV/EHU) Tot: 980000 €
8. Equipamiento e Instrumentación Avanzada PiE-UPV/EHU (96 items) UNPV13-4E-1785 Convocatoria de Infraestructuras 2013 del Ministerio de Economía y Competitividad. PI: I Marigómez. 2709262 € (50% Cofounded FEDER) 1500000 € spent 2013-2015

### **C.4. Contracts, technological or transfer merits**

1. Estudio del estado ecológico del entorno de la descarga en Punta Lucero. Campaigns 2012-2021. Petronor SA. PI: JM Gorostiaga. 160000 €/ campaign
2. Tissue distribution & biological effects of microplastics in marine mussels (PLASTinMUSS). Swedish MNH (Stokholm) 2014 - 2015 PI: I MARIGÓMEZ 75000 €
3. Toxic action of molluscicides: effect of application mode. DeSangosse (FR). 2011-2012. PI: I MARIGÓMEZ 63000 €
4. Rehabilitación y Adecuación de las Instalaciones de la Estación Marina e Plentzia. Contrato Prog BFA, Biscay County Govern. 2008-2013 PI: I MARIGÓMEZ 7000000 €
5. Patents: C Cancio, I; Díaz De Cerio, O; Rojo, I; Bilbao, E; Izaguirre, U; Orbea, A; Soto, M; Marigómez, I; Cajaraville, MP; Ortiz-Zarragoitia, M. ES 2 398 811 A2. Spain; 21/03/2013. Owner: UPV/EHU; ES 2 392 604 B1. Spain; 12/12/2012. Owner: UPV/EHU
6. Patent: Cancio, I; Díaz De Cerio, O; Rojo, I; Bilbao, E; Izaguirre, U; Orbea, A; Soto, M; Marigómez, I; Cajaraville, MP; Ortiz-Zarragoitia, M. PCT/ES2012/070343 International; 14/05/2012. Owner: UPV/EHU