



**CURRICULUM VITAE (CVA)**

**IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.**

**Part A. PERSONAL INFORMATION**

**CV date** 10/12/2021

First name	Juan		
Family name	Bellas		
Gender (*)	Male	Birth date (dd/mm/yyyy)	11/12/1974
Social Security, Passport, ID number	76.414.494F		
e-mail	juan.bellas@ieo.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)		0000-0001-6179-8528	

(\*) Mandatory

**A.1. Current position**

Position	Research Professor and Chief of the Marine Pollution Program		
Initial date	16/03/2012 (Coordinator MPP); 31/12/2017 (Res. Prof.)		
Institution	Instituto Español de Oceanografía (IEO-CSIC)		
Department/Center	Centro Oceanográfico de Vigo		
Country	Spain	Teleph. number	+34 986 492111
Key words	Marine pollution, Ecotoxicology, Marine ecology, Marine larval biology, Biomarkers, Bioassays		

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

Period	Position/Institution/Country/Interruption cause
01/10/1997-28/02/2002	Pre-doctoral fellow, Universidad de Vigo, Spain
04/03/2002-07/06/2002	Invited Professor, Universidad de Vigo, Spain
15/08/2002-30/09/2003	Post-doctoral fellow, Royal Swedish Academy of Sciences, Sweden
01/10/2003-30/11/2004	EU “Marie-Curie” Researcher, Göteborg University, Sweden
01/12/2004-30/11/2007	“Juan de la Cierva” Researcher, Universidad de Vigo, Spain
01/01/2008-01/11/2009	“Ramón y Cajal” Researcher, Universidad de Vigo, Spain
01/11/2009-09/02/2016	Científico Titular de OPIs, Instituto Español de Oceanografía (IEO), Spain
16/03/2012-present	Chief of the Marine Pollution Program, IEO, Spain
09/02/2016-30/12/2017	Investigador Científico de OPIs, IEO, Spain
31/12/2017-present	Profesor de Investigación de OPIs, IEO, Spain

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
PhD Marine Sciences	Universidad de Vigo	2002
BA Thesis	Universidad de Vigo	1999
BA Degree Marine Sciences	Universidad de Vigo	1997

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

Juan Bellas has a PhD in Marine Sciences, specializing in ecotoxicology and marine pollution. He is Research Professor at the Spanish Institute of Oceanography (IEO). He is the Chief Investigator of the Marine Pollution Program of the IEO, and he was Coordinator of the scientific activities for the implementation of the Marine Strategy Framework Directive in Spain



from 2010 to 2018. He has participated in various international committees and working groups of the European Commission, the OSPAR Commission and the International Council for the Protection of the Sea (ICES). He is currently Chairman of the ICES Working Group on Biological Effects of Contaminants (WGBEC). He is an advisor to the Ministry of Ecological Transition of Spain, and is a member of the UNESCO Chair in Sustainable Littoral Development (Campus do Mar). He has made research stays (total: 28 months) in several universities and research centers in the United States, Australia, Sweden and Iceland. He has participated in several oceanographic cruises, including 3 cruises in Antarctica. He has participated in more than 30 projects and research contracts (leader in 11), and has published over 90 articles, 69 in SCI journals (>75% of them in the first quartile, Q1), and several book chapters, on the study of the biological effects of pollutants and the integrated assessment of marine pollution. According to the Scopus database, his articles average 270 citations/year in the last 5 years (total citations: >2470, *h*-index: 30). He is member of the editorial board of the *ICES Journal of Marine Science*. He has been granted three patents. He has supervised three doctoral theses, two of which have an 'International Mention' and have obtained the 'Extraordinary Doctorate Award', and one of them obtained the 'Prize of the Royal Academy of Doctors' of Spain. Post-doc supervision: 3. Master's theses and Advanced Studies Diploma supervision: 8. Students internships supervised: 8. Communications in congresses and conferences: > 100. Invited lectures: 12.

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

### **C.1. Publications** (selected publications, last 10 years)

**J. Bellas**, L. Saco-Álvarez, Ó. Nieto, J. María Bayona, J. Albaigés, R. Beiras. Evaluation of artificially-weathered standard fuel oil toxicity by marine invertebrate embryogenesis bioassays. *Chemosphere*, 90: 1103-1108 (2013).

L. Vidal-Liñán, **Juan Bellas**. Practical procedures for selected biomarkers in mussels, *Mytilus galloprovincialis* - Implications for marine pollution monitoring. *Science of the Total Environment*, 461-462: 56-64 (2013).

**J. Bellas**, M. Albentosa, L. Vidal-Liñán, V. Besada, M. Ángeles Franco, J. Fumega, A. González-Quijano, L. Viñas, R. Beiras. Combined use of chemical, biochemical and physiological variables in mussels for the assessment of marine pollution along the N-NW Spanish coast. *Marine Environmental Research*. 96: 105-117 (2014).

C. González-Fernández, M. Albentosa, J. A. Campillo, L. Viñas, J. Fumega, M. A. Franco, V. Besada, A. González-Quijano, **J. Bellas**. Influence of mussel biological variability on pollution biomarkers. *Environmental Research*. 137: 14-31 (2015).

L. Vidal-Liñán, **J. Bellas**, N. Salgueiro-González, S. Muniategui, R. Beiras. Bioaccumulation of 4-nonylphenol and effects on molecular biomarkers, acetylcholinesterase, glutathione-S-transferase and glutathione peroxidase in *Mytilus galloprovincialis* mussel gills. *Environmental Pollution*. 200: 133-139 (2015).

C. González-Fernández, M. Albentosa, J. A. Campillo, L. Viñas, M.A. Franco, **J. Bellas**. Effect of mussel reproductive status on pollution biomarkers: Implications for large-scale monitoring programs. *Aquatic Toxicology*. 177: 380-394 (2016).

**J. Bellas**, J. Martínez-Armental, A. Martínez-Cámara, V. Besada, C. Martínez-Gómez. Ingestion of microplastics by demersal fish from the Spanish Atlantic and Mediterranean coasts. *Marine Pollution Bulletin*. 109: 55-60 (2016).

D. Rial, J. M. Ruiz, **J. Bellas**. Critical analysis of the relationship between imposex and butyltin body burden in *Nassarius reticulatus* and *Nucella lapillus*. *Environmental Pollution*. 237: 523-530 (2018).

**J. Bellas**, I. Gil. Polyethylene microplastics increase the toxicity of chlorpyrifos to *Acartia tonsa* copepods. *Environmental Pollution*. 260: 114059 (2020).

J. I. Bertucci, **J. Bellas**. Combined effect of microplastics and global warming factors on early growth and development of the sea urchin (*Paracentrotus lividus*). *Science of the Total Environment*. 782: 146888 (2021).

### **C.2. Congress** (selected communications, last 10 years)



Invited talk. **J. Bellas**. Evaluación del estado ambiental actual y definición de buen estado ambiental: Contaminación. Congreso Nacional de Medio Ambiente-CONAMA 2012. Madrid. 26-30 November 2012. Fundación Conama.

Oral presentation. **J. Bellas**, M. Albentosa, L. Vidal-Liñán, V. Besada, M. Á. Franco, J. Fumega, A. González-Quijano, L. Viñas, R. Beiras. Integrated use of chemical, biochemical and physiological variables in mussels for the assessment of marine pollution along the N-NW Spanish coast. 17th International Symposium on pollutant responses in marine organisms PRIMO 17. Faro (Portugal). 5-8 May 2013. CIMA, Universidade do Algarve.

Oral presentation. **J. Bellas**. The implementation of the Marine Strategy Framework Directive in Spain: Shortcomings and limitations. 2nd International Ocean Research Conference "One Planet One Ocean". Barcelona. 17-21 November 2014. Intergovernmental Oceanographic Commission of UNESCO.

Oral presentation. C. González-Fernández, M. Albentosa, J.A. Campillo, L. Vinas, M.A. Franco, **J. Bellas**. Does mussel nutritional status act as a confounding factor on biomarkers responses? 25th SETAC Europe Annual Meeting. Barcelona. 3-7 May 2015. Society of Environmental Toxicology and Chemistry.

Oral presentation. E. Paredes, **J. Bellas**. Applications of cryopreserved sea urchin embryos. 52nd Annual Meeting of the Society for Cryobiology. Proceedings, Cryobiology. Ostrava-Zábřeh (Rep. Checa). 26-29 July 2015. Society for Cryobiology.

Oral presentation. D. Rial, V.M. León, **J. Bellas**. Integrative assessment of coastal marine pollution in Santander Bay and Galician Rías. XV International Symposium on Oceanography of the Bay of Biscay (ISOBAY 15). Bilbao. 22-24 June 2016. Universidad del País Vasco.

Oral presentation. L. Vidal-Liñán, J. A. Campillo, B. Fernández, M. Albentosa, **J. Bellas**. Comparative role of microalgae and microplastics in the effects of chlorpyrifos on molecular biomarkers in marine mussels. 28th SETAC Europe Annual Meeting. Roma (Italia). 13-17 May 2018. Society of Environmental Toxicology and Chemistry.

Oral presentation. **J. Bellas**, D.Rial, L. Vidal-Liñán, J. A. Campillo, V. M. León, M. Albentosa. Are microplastics a real environmental threat? – Impact on marine invertebrate embryos and larvae. VI International Symposium in Marine Sciences. Vigo. 20-22 June 2018. Univ. de Vigo.

Oral presentation. **J. Bellas**, J.A. Campillo, L. Vidal-Liñán, S. Garrido, D. Rial, V.M. León, E. Chaves, B. Fernández, M. Albentosa. Microplastics as vectors of organic contaminants in the marine environment. MICRO2018 International Conference. Fate and Impact of Microplastics: Knowledge, actions and solutions. Proceedings: Baztan et al. Eds. MICRO 2018. Fate and Impact of Microplastics: Knowledge, Actions and Solutions. 414 pp. ISBN 978-84-09-06477-9. Arrecife (Lanzarote). 19-23 November 2018. Cabildo de Lanzarote, UVSQ, Plymouth Univ.

Oral presentation. J.I. Bertucci, **J. Bellas**. Potential risks of microplastics and global warming factors on early growth and development of the sea urchin (*Paracentrotus lividus*). Comunicación oral. ASLO 2021 Aquatic Sciences Meeting. On line. 22-27 June 2021. Association for the Sciences of Limnology and Oceanography.

### **C.3. Research projects** (*selected projects, last 10 years*)

TITLE: Transferencia de herramientas para la Evaluación, Ordenación, Gestión y Educación Ambiental en Estuarios (TEAM-MIÑO) (0543 TEAM MIÑO). FINANCIAL ENTITY: European Union, POCTEP Program. PRINCIPAL INVESTIGATOR: Ricardo Beiras (Univ. of Vigo). START: 2011. END: 2014. GRANT: 774.345 €. PARTICIPATION: Researcher.

TITLE: Factores de confusión de la BIOMonitorización de la COntaminación Marina (BIOCOM) (CTM2012-30737). FINANCIAL ENTITY: Ministerio de Economía y Competitividad, Plan Nacional de I+D+i. PRINCIPAL INVESTIGATOR: Marina Albentosa (Instituto Español de Oceanografía). START: 2013. END: 2015. GRANT: 128.700 €. PARTICIPATION: Researcher.

TITLE: Viabilidade de Patella como organismo indicador da calidade ambiental de ecosistemas costeiros (EM2013/051). FINANCIAL ENTITY: Xunta de Galicia, Proxectos de Investigación para Investigadores Emerxentes. PRINCIPAL INVESTIGATOR: Nuria Fernández (Universidad de A Coruña), **Juan Bellas**. START: 2013. END: 2016. GRANT: 97.000 €. PARTICIPATION: PI at IEO.

TITLE: Impacto de microplásticos, contaminantes regulados y emergentes en ecosistemas marinos y establecimiento de sus criterios de calidad ambiental (IMPACTA) (CTM2013-48194-C3-1-R). FINANCIAL ENTITY: Ministerio de Economía y Competitividad, Plan Nacional



de I+D+i. PRINCIPAL INVESTIGATOR: Víctor León (Instituto Español de Oceanografía). START: 2014. END: 2016. GRANT: 169.400 €. PARTICIPATION: Researcher.

TITLE: Ecotoxicological Effects of Microplastics in Marine Ecosystems (EPHEMARE) (PCIN-2015-187-C03-03). FINANCIAL ENTITY: JPI Oceans, 2014 Pilot Call on ecological effects of microplastics. PRINCIPAL INVESTIGATOR: Ricardo Beiras (Universidad de Vigo). START: 2015. END: 2018. GRANT: 1.854.000 €. PARTICIPATION: Researcher.

TITLE: Support Mediterranean Member States towards Coherent and coordinated Implementation of the second phase of the MSFD (MedCis). FINANCIAL ENTITY: DG ENV, EU, Grants for an Action, MSFD Second Cycle/2016. START: 2016. END: 2018. PRINCIPAL INVESTIGATOR: Popi Pagou (Hellenic Centre for Marine Research). GRANT: 999.896 €.

TITLE: Consolidación e Estructuración de Unidades de Investigación Competitivas 2018 (IN607B 2018/10). FINANCIAL ENTITY: Consellería de Cultura, Educación e Ordenación Universitaria, Consellería de Economía, Emprego e Industria. Xunta de Galicia. PRINCIPAL INVESTIGATOR: **Juan Bellas** (Instituto Español de Oceanografía). START: 2018. END: 2020. GRANT: 89.004 €. PARTICIPATION: Principal Investigator.

TITLE: Integrated approach on the fate of MicroPlastics (MPs) towards healthy marine ecosystems (MicroplastiX). FINANCIAL ENTITY: Ministerio de Ciencia e Innovación, Proyectos de I+D+i de Programación Conjunta Internacional 2020: JPI-Oceans 2019. PRINCIPAL INVESTIGATOR: Soledad Muniategui (Universidad de A Coruña). START: 2020. END: 2023. GRANT: 150.000 €. PARTICIPATION: Researcher.

TITLE: Consolidación e Estructuración de Unidades de Investigación Competitivas 2021 (IN607B 2021/01). FINANCIAL ENTITY: Consellería de Cultura, Educación e Universidade, Consellería de Economía, Empresa e Innovación. Xunta de Galicia. PRINCIPAL INVESTIGATOR: **Juan Bellas** (Instituto Español de Oceanografía). START: 2021. END: 2023. GRANT: 90.000 €. PARTICIPATION: Principal Investigator.

TITLE: Studying the combined effect of microplastics, pesticides and global warming on the sea urchin: a multidisciplinary approach to protect marine ecosystems — App-Marie (MSCA-IF-EF-ST 101027681). FINANCIAL ENTITY: European Research Executive Agency (European Commission). COORDINATOR: **Juan Bellas**. START: 2022. END: 2024. GRANT: 172.933 €. PARTICIPATION: Coordinator.

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

CONTRACT: Servicio de asistencia técnica para la elaboración de un programa de seguimiento para la evaluación permanente del descriptor 11 para el IEO. FINANCIAL ENTITY: Instituto Español de Oceanografía. TECHNICAL DIRECTOR: **Juan Bellas** (Instituto Español de Oceanografía). START: 2014. END: 2015. GRANT: 140.360 €.

CONTRACT: Servicio para el diseño y ejecución del programa de seguimiento de las especies de interés comunitario *Tursiops truncatus* y *Caretta caretta* en las zonas especiales de conservación marinas de la región biogeográfica macaronésica de la Red Natura 2000. FINANCIAL ENTITY: Instituto Español de Oceanografía. TECHNICAL DIRECTOR: **Juan Bellas** (Instituto Español de Oceanografía). START: 2014. END: 2015. GRANT: 161.570 €.

CONTRACT: Asesoramiento científico técnico para la evaluación, seguimiento, planificación y protección del medio marino. FINANCIAL ENTITY: Dirección General de Sostenibilidad de la Costa y del Mar, Ministerio de Medio Ambiente, Rural y Marino. COORDINATOR: **Juan Bellas**. START: 2013. END: 2015. GRANT: 3.894.262 €.

PATENT. INVENTORS: **Juan Bellas**, Ricardo Beiras. TITLE: Procedure for the evaluation of the efficacy of antifouling compounds by means of the ascidian larval settlement bioassay. REGISTRATION No: ES 2333573 B1. PRIORITY COUNTRY: Spain. CONCESSION DATE: 01/04/2011. OWNER ENTITY: Univ. Vigo.

PATENT. INVENTORS: Ricardo Beiras, **Juan Bellas**, Estefanía Paredes. TITLE: Procedure for the cryopreservation of sea urchin embryos and associated bioassay. REGISTRATION No: ES 2556144 B1. PRIORITY COUNTRY: Spain. CONCESSION DATE: 07/07/2016. OWNER ENTITY: Univ. Vigo.

PATENT. INVENTORS: Ricardo Beiras, Leticia Vidal, **Juan Bellas**, Óscar Nieto. TITLE: Submersible mussel-caging device for the analysis of marine pollution. REGISTRATION No: ES 2700964 B1. PRIORITY COUNTRY: Spain. CONCESSION DATE: 30/03/2020. OWNER ENTITY: Univ. Vigo.