



<b>Part A. PERSONAL INFORMATION</b>		<b>CV date</b>	19-06-2018
First and Family name	Javier Arístegui		
Social Security, Passport, ID number	51871751N	Age	61
Researcher numbers	Researcher ID	D-5833-2013	
	ORCID code	0000-0002-7526-7741	

### A.1. Current position

Name of Institution	Universidad de Las Palmas de Gran Canaria		
Centre	Instituto de Oceanografía y Cambio Global		
Address and Country	Parque Científico Tecnológico Marino, Taliarte (Telde), Spain		
Phone number	928452906	E-mail	<a href="mailto:javier.aristegui@ulpgc.es">javier.aristegui@ulpgc.es</a>
Current position	Full Professor (Catedrático Universidad)	From	2010
UNESCO code	251001		
Key words	Biological Oceanography, Marine Biogeochemistry, Plankton Metabolism, Microbial Ecology, Carbon Fluxes		

### A.2. Education

Degree/PhD	University	Year
Licenciado en Biología	Universidad de La Laguna	1979
Doctor en Biología	Universidad de La Laguna	1984

### A.3. JCR articles, h Index, thesis supervised...

- 6-year research periods (“Sexenios de Investigación”): 5
- Doctoral thesis supervised: 14
- Master thesis supervised: 22
- JCR articles: >120
- h-index (WoS): 34 (>3500 citations)
- h-index (Google Scholar): 45 (>6000 citations)
- i10-index (Google Scholar): 103
- Average citation/year (last 5 years; WoS of T Reuters): > 300

### Part B. CV SUMMARY

Javier Arístegui is Full Professor of Ecology at the University of Las Palmas de Gran Canaria (ULPGC), where he has been dedicated teacher, advisor of Master and PhD theses, and mentor of talented and enthusiastic young scientists during the past 30 years. Under his supervision 14 PhD students and numerous Master students successfully completed their degrees in biological oceanography at the Faculty of Marine Sciences of the ULPGC. For more than 25 years, he has worked closely with physical oceanographers on the dynamics of pelagic ecosystems, including studies on plankton ecology and ecophysiology, microbial oceanography and biogeochemistry. He has published over 120 publications and book chapters, coordinated 20 national and international projects, co-authored more than 120 conference presentations, with several plenary or invited conferences, and participated in more than 30 oceanographic cruises across all major ocean basins, from polar to tropical seas. He has served the scientific community as organizer and convener of a number of international conferences and symposia, ad-hoc reviewer for 10 national and international Science Foundations, and reviewer for more than 30 international journals. Presently is Editor in Chief of “Deep Sea Research II” and Associate Editor of “Frontiers in Marine Science”. In the past has been Guest Editor of “Progress in Oceanography” (2004 and 2009) and “Scientia Marina” (2001). He was contributing author for the first Implementation Plan of the JGOFS-Time Series Stations and the implementation Plan of the Joint SOLAS\_IMBER



Ocean Carbon Research Carbon Cycle. He has been Contributing Author and Reviewer for the chapter on “The Oceans” of the IPCC 5th Assessment Report (2014) and, more recently, Lead Author for the “IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (2017-2019)”. He also formed part of the European Network of Excellence Eur-Oceans (2005-2007), and was Chair of the SSC IMBER-Spain (2007-2013), and member and Vice-Chair of the SSC IMBER international programme (2007-2013). Recently, he was awarded with the 2015 “Helmholtz International Fellow Award”, a prestigious prize from the German Helmholtz Association.

## Part C. RELEVANT MERITS

### C.1. Publications (10 relevant from the last years)

- Baltar, F., **J. Arístegui**. 2017. Fronts at the surface ocean can shape distinct regions of microbial activity and community assemblages down to the bathypelagic zone: The Azores front as a case study. *Frontiers in Marine Science* 4, 252
- Benavides, M., S Bonet, N Hernandez, AM Martínez-Perez, M Nieto-Cid, XA Álvarez-Salgado, I Baños, MF Montero, IP Mazuecos, JM Gasol, T Dittmar, I Berman-Frank, **J. Arístegui**. 2016. Basin-wide aphotic N<sub>2</sub> fixation in the Mediterranean Sea. *Global Biogeochemical Cycles*, 30:952-961
- Mazuecos, I.P., **J. Arístegui**, E. Vázquez-Domínguez, E. Ortega-Retuerta, J.M. Gasol, I. Reche. 2015. Temperature control of microbial respiration and growth efficiency in the mesopelagic zone of the south Atlantic and Indian Oceans. *Deep Sea Research I*, (95): 131-138.
- **Arístegui, J.**, CM Duarte, I. Reche, JL Gómez-Pinchetti. 2014. Krill excretion boosts microbial activity in the Southern Ocean. *PlosOne* 9(2): e89391, doi:10.1371/journal.pone.0089391
- Alonso-González, I., **J. Arístegui**, C. Lee, A. Sánchez-Vidal, A. Calafat, J. Fabrés, P. Sangrá, E. Mason. 2013. Increased carbon sequestration by mesoscale eddies in the Northeast Atlantic Ocean. *PlosOne*, 8 (12): e82447. Doi:10.1371/journal.pone.0082447
- Alonso-González, I.J., **J. Arístegui**, C. Lee, A. Calafat, A. Sánchez-Vidal, P. Sangrá, P. Masqué, J. Fabrés. 2010. Are slow sinking particles in the ocean important? *Geophysical Research Letters* 37, L13608, doi: 10.1029/2010GL043827
- Baltar, F., **J. Arístegui**, E. Sintés, J.M. Gasol, T. Reinthaler, G.J. Herndl. 2010. Significance of non-sinking particulate organic carbon and dark CO<sub>2</sub> fixation to heterotrophic carbon demand in the mesopelagic northeast Atlantic. *Geophysical Research Letters* 37, L09602, doi:10.1029/2010GL043105
- **Arístegui, J.**, JM Gasol, CM Duarte, G Herndl. 2009. Microbial oceanography of the dark ocean's pelagic realm. *Limnology & Oceanography (Review)* 54: 1501-1529
- **Arístegui, J.**, E.D. Barton, XA Alvarez Salgado, A.M.P. Santos, F.G. Figueiras, S. Kifani, S. Hernández-León, E. Mason, E. Machu, H. Demarcq. 2009. Sub-regional ecosystem variability in the Canary Current upwelling (Review). *Progress in Oceanography*, 83: 33-48.
- **Arístegui, J.**, A. Mendonca, JC Vilas, M. Espino, I. Polo, MF Montero, A. Martins 2009. Plankton metabolic balance at two north Atlantic seamounts. *Deep-Sea Research II*, 56: 2646-2655.

### C.2. Research projects (as PI and general coordinator in the last 10 years)

- FLUXES (2016-2019): Constraining organic carbon fluxes in an Eastern Boundary Upwelling system (Cape Blanc; NW Africa): the role of non-sinking carbon in the context of the biological pump (MINECO, Spain) (230.000€). PI and coordinator of 3 projects: J Arístegui
- HOTMIX (2011-2015): Mixing zones and fronts in the dark ocean as hot-spots of biodiversity and biogeochemical cycles across the Mediterranean Sea and Northeast Atlantic (MINECO, Spain) (193.600€). PI and coordinator of 2 projects: J Arístegui



- CAIBEX (2007-2010): Shelf–ocean exchanges in the Canaries–Iberian Large Marine Ecosystem (MEC, Spain) (371.400€). PI and coordinator of 3 projects: J Arístegui
- RODA (2004-2007): Oceanic eddies and atmospheric deposition (MEC, Spain) (230.000€). PI and coordinator of 3 projects: J Arístegui

### **C.3. Conference presentations and organization**

- Author or co-author of >120 conference presentations, with several plenary or invited conferences
- Co-Convenor of the IMBIZO IV – Marine and Human Systems (Addressing multiple scales and multiple stressors), Trieste, Italy, October 2015.
- Co-organiser of the 45th International Liege Colloquium on Ocean Dynamics; Liege, Belgium, May 2013
- Co-organiser of the 43rd International Liege Colloquium on Ocean Dynamics; Liege, Belgium, May 2011
- Co-Convenor of the International Symposium: “Eastern boundary upwelling ecosystems: integrative and comparative approaches” Las Palmas de Gran Canaria, June 2008
- Member of the Scientific Organizing Committee of the International Workshop: “Ecological and biogeochemical interactions in the mesopelagic zone” (IMBIZO-IMBER), Miami , USA; November, 2008
- Co-Convenor of the International Workshop: “Shedding light on the dark ocean: breaking paradigms in biogeochemistry, diversity and plankton metabolism in the meso- and bathypelagic realm” Noordwijkerhout, Netherlands (funded by Euroceans). February 2008
- Co-Convenor of the IMBER-GLOBEC Spain Symposium. Valencia, March 2007
- Co-Convenor of the EIASO (MAST) Advanced Study Course on Upwelling Systems (Atlantic Ocean Eastern Boundary). Funded by the UE, MAST Program & UNESCO. Las Palmas de Gran Canaria, July-August 1995

### **C.4. Panel reviews**

- Reviewer for the European Union (EU\_MAST)
- Reviewer for the National Science Foundation (USA)
- Reviewer for the Agence Nationale de la Recherche (ANR, France)
- Reviewer for the Natural Environment and Research Council (NERC; UK)
- Reviewer for the Earth and Life Science Council (ALW, Netherlands)
- Reviewer for the “Agencia Nacional de Evaluación y Prospectiva” (MEC, Spain)
- Reviewer for the Catalan Agency of Research and Innovation (ICREA, Spain)
- Expert of the “Agencia Nacional de Evaluación y Prospectiva” (MEC, Spain)
- Reviewer for the Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT; Argentina)
- Reviewer for the Agencia Nacional Chilena (CONICYT)