

Ángel López-Urrutia

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Education

European Ph.D. (*With Distinction*) October 2002.

Ph.D. by the University of Oviedo (Spain; Ecology program) October 2002.

Title: *In situ evaluation of the ingestion rates of the appendicularian community: trophic impact and ecophysiological implications*. Advisor: J.L. Acuña.

B.Sc. in Biology (Zoology program) July 1997. University of Oviedo.

Profesional Employment

Senior Scientist. Instituto Español de Oceanografía. Centro Oceanográfico de Gijón. (September 2007-).

Ramon y Cajal Fellow. Instituto Español de Oceanografía. Centro Oceanográfico de Gijón. (December 2006-September 2007).

PI of Spanish Ministry of Science project. Instituto Español de Oceanografía. Centro Oceanográfico de Gijón. (January 2005-December 2006).

Principado de Asturias fellow. Instituto Español de Oceanografía. Centro Oceanográfico de Gijón. (July 2003-January 2005).

Zooplankton ecologist. U.K. Natural Environmental Research Council - Plymouth Marine Laboratory. (October 2000-July 2003).

Ph D grant E.U. project: *The impact of Appendicularia in European marine ecosystems (EURAPP)*. Ecology department. University of Oviedo. Spain. (August 1998-October 2000).

Ph D grant E.U. project: *Ocean Margin Exchange II - Phase II*. Ecology department. University of Oviedo. Spain. (September 1997-August 1998).

Peer Reviewed Publications

- [1] **López-Urrutia Á** (in press) The metabolic theory of ecology and algal bloom formation. *Limnology And Oceanography* .
- [2] Valdés L, **López-Urrutia Á**, Cabal J, Alvarez-Ossorio M, Bode A, Miranda A, Cabanas M, Huskin I, Anadón R, Alvarez-Marques F, Llope M, Rodriguez N (2007) A decade of sampling in the Bay of Biscay: What are the zooplankton time series telling us? *Progress In Oceanography* 74:98–114.
- [3] **López-Urrutia Á**, Morán XAG (2007) Resource limitation of bacterial production distorts the temperature dependence of oceanic carbon cycling. *Ecology* 88:817–822.

- [4] Bonnet D, Harris R, **López-Urrutia Á**, Halsband-Lenk C, Greve W, Valdés L, Hirche HJ, Engel M, Alvarez-Ossorio MT, Wiltshire K (2007) Comparative seasonal dynamics of *Centropages typicus* at seven coastal monitoring stations in the North Sea, English Channel and Bay of Biscay. *Progress In Oceanography* 72:233–248.
- [5] Hirst A, **López-Urrutia Á** (2006) Effects of evolution on egg development time. *Marine Ecology-Progress Series* 326:29–35.
- [6] Martin ES, Irigoien X, Harris RP, **López-Urrutia Á**, Zubkov MV, Heywood JL (2006) Variation in the transfer of energy in marine plankton along a productivity gradient in the Atlantic Ocean. *Limnology And Oceanography* 51:2084–2091.
- [7] Varela M, Bode A, Lorenzo J, Alvarez-Ossorio MT, Miranda A, Patrocinio T, Anadón R, Viesca L, Rodriguez N, Valdés L, Cabal J, **López-Urrutia Á**, Garcia-Soto C, Rodriguez M, Alvarez-Salgado XA, Groom S (2006) The effect of the "Prestige" oil spill on the plankton of the N-NW Spanish coast. *Marine Pollution Bulletin* 53:272–286.
- [8] **López-Urrutia Á**, San Martin E, Harris RP, Irigoien X (2006) Scaling the metabolic balance of the oceans. *Proceedings Of The National Academy Of Sciences Of The United States Of America* 103:8739–8744.
- [9] Bonnet D, Richardson A, Harris R, Hirst A, Beaugrand G, Edwards M, Ceballos S, Diekman R, **López-Urrutia Á**, Valdés L, Carlotti F, Molinero JC, Weikert H, Greve W, Lucic D, Albaina A, Yahia ND, Umani SF, Miranda A, dos Santos A, Cook K, Robinson S, de Puelles MLF (2005) An overview of *Calanus helgolandicus* ecology in European waters. *Progress In Oceanography* 65:1–53.
- [10] **López-Urrutia Á**, Harris R, Acuña JL, Baamstedt U, Fyhn HJ, Flood P, Gasser B, Gorsky G, Irigoien X, Martinussen M (2005) A comparison of appendicularian seasonal cycles in four contrasting European coastal environments. In: Gorsky G, Youngbluth M, editors, *Response of marine ecosystems to global change: Ecological impact of appendicularians*, Contemporary Publishing International, Aditions Scientifiques GB.
- [11] Fernandez D, **López-Urrutia Á**, Fernandez A, Acuña JL, Harris R (2004) Retention efficiency of 0.2 to 6 μm particles by the appendicularians *Oikopleura dioica* and *Fritillaria borealis*. *Marine Ecology-Progress Series* 266:89–101.
- [12] **López-Urrutia Á**, Harris RP, Smith T (2004) Predation by calanoid copepods on the appendicularian *Oikopleura dioica*. *Limnology And Oceanography* 49:303–307.
- [13] **López-Urrutia Á** (2003) Allometry: How reliable is the biological time clock? *Nature* 424:269–270.
- [14] **López-Urrutia Á**, Irigoien X, Acuña JL, Harris R (2003) In situ feeding physiology and grazing impact of the appendicularian community in temperate waters. *Marine Ecology-Progress Series* 252:125–141.

- [15] **López-Urrutia Á**, Acuña JL, Irigoien X, Harris R (2003) Food limitation and growth in temperate epipelagic appendicularians (Tunicata). *Marine Ecology-Progress Series* 252:143–157.
- [16] Zubkov MV, **López-Urrutia Á** (2003) Effect of appendicularians and copepods on bacterioplankton composition and growth in the English Channel. *Aquatic Microbial Ecology* 32:39–46.
- [17] **López-Urrutia Á**, Acuña JL (1999) Gut throughput dynamics in the appendicularian *Oikopleura dioica*. *Marine Ecology-Progress Series* 191:195–205.

Grants and Fellowships

EU Framework 7 Marine Ecosystem Evolution in a Changing Environment- MEECE. (2008-) 115000 euros.

Effect of hydrographical disturbance on the structure of planktonic communities *Efecto de las perturbaciones meteorológico-hidrográficas en la estructura de la comunidad planctónica- PERPLAN*. (2007-2010) 98000 euros.

Ramon y Cajal grant *Marine macroecology: the metabolic theory of ecology and oceanic carbon fluxes*. (2006-2007) 15000 euros.

Study of the effects of “Prestige” oil spill on zooplankton and ichthyoplankton. (2003-2006) 95000 euros.

Organized Workshops/Symposia

“Size structure of planktonic communities”. Session chair, Special Session, ASLO Summer meeting in Santiago de Compostela, 2005.

GLOBEC /SPACC workshop on “Image analysis to count and identify zooplankton”. San Sebastian, 2005.

PICES/ICES Early Careers Scientist conference “New frontiers in marine science”. June, 2007.

Working Groups

ICES Working Group on Zooplankton Ecology Member since 2002.

SCOR Working 125 Global comparison of zooplankton time series. Associate member. 2004-2007.

SCOR Working 113. Automatic Visual Plankton Identification. Full member. 2007-2010.

Invited Talks and Seminars

University of Oviedo. Seminars in ecology. “Alometría de la producción y la respiración oceánicas y su papel en la modulación del cambio climático. Oviedo 2006.

European Geophysical Union 2007. Marine macroecology: simple rules for complex systems. Viena.

GLOBEC IMBER symposium. Marine macroecology: simple rules for complex systems. Valencia 2007

PICES/ICES Symposium. Effects of Climate Change on the World’s Oceans. Temperature rules the

oceans biota. Marine macroecology: simple rules for complex systems. May 2008

Profesional OutReach

Reviewer: Trends in Ecology and Evolution, Proceedings of the National Academy of Sciences USA, Marine Ecology Progress Series, Marine Biology, Journal of Plankton Research, ICES Journal of Marine Science, Limnology and Oceanography, Journal of the Marine Biological Association UK, Global Change Biology, Oikos, Aquatic Microbial Ecology.

Proposal reviewer for NERC UK, United States-Israel Binational Science Foundation, Council for the Earth and Life sciences - Netherlands Organisation for Scientific Research.

Ph.D. panel: Alejandro Isla (University of Oviedo), Eva Lopez (University of Oviedo), Aitor Alabina (University of the Basque Country) and Lucia Zarautz (University of the Basque Country).

Ph.D. lecturer for the University of Oviedo Ph.D. programme: Evolutionary and biogeochemical aspects of aquatic systems.