



MINISTERIO  
DE CIENCIA E  
INNOVACION,

SECRETARÍA DE ESTADO DE  
INVESTIGACION

DIRECCIÓN GENERAL  
DE UNIVERSIDADES

# Curriculum vitae

Nº of sheets: 32

**Name:** *PhD M<sup>a</sup> Mercedes Ortega Hidalgo*

**Date:** June 11<sup>th</sup> 2019

Observations:

MECD/SEUI/DGU – Convocatoria de becas del PNFP. Currículum del Director de la Tesis.

Remember every sheet should be signed in the margin.

**SURNAME: ORTEGA HIDALGO**

**NAME: MARIA MERCEDES**

**SEX: F**

**ID: 14917329N**

**BIRTH DATE: 19/02/1955**

**CIVIL SERVANT NUMBER: A44EC:1491732002**

**HOME ADDRESS: ESTRATZA BIDEA Nº 11**

**CITY: MUNGIA (BIZKAIA)**

**POSTAL CODE: 48100**

**TELEPHONE: 946742939**

**FIELD OF SPECIALIZATION (UNESCO CODES): 240113/240100/240109**

### UNIVERSITY STUDIES

**LICENCIATURA DEGREE**

**Date**

**Institution**

BIOLOGICAL SCIENCES

1979

UPV/EHU

PhD

BIOLOGY

1985

UPV/EHU

Special Honour Mention for doctorates in Biology.

**Ph D. DIRECTOR (S):**

Dr. JUAN MANUEL GANDARIAS BAJON/DR. ENRIQUE NAVARRO ADORNO

### CURRENT PROFESSIONAL SITUATION

**ORGANISM: UNIVERSIDAD DEL PAIS VASCO / EUSKAL HERRIKO UNIBERTSITATEA**

**FACULTY, SCHOOL or INSTITUTE: FACULTY OF SCIENCES & TECHNOLOGY**

**DEPT.: GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY**

**PROFESSIONAL POSITION AND DATE OF INITIATION: TITULAR PROFESSOR OF UNIVERSITY (19-01-89) TENURE.**

**POSTAL ADDRESS: P.O: Box.644/ 48080 BILBAO**

**TELEPHONE: 946012501**

**CIVIL SERVANT** ☒

**CONTRACT** ☐

**SCHOLARSHIP** ☐

**INTERINE** ☐

**DEDICATION: FULL-TIME**

**PART-TIME**

☒

☐

### FORMER ACTIVITIES OF SCIENTIFIC OR PROFESSIONAL TYPE

**DATES**

**POSITION**

**INSTITUTION**

1-03-80 a 31-12-85

LECTURER

UPV/EHU

1-01-86 a 30-09-87

ASSOCIATE PROFESSOR

UPV/EHU

1-10-87 a 19-01-89

TITULAR PROFESSOR INTERINE

UPV/EHU

### LANGUAGES OF SCIENTIFIC INTEREST (C=correctly)

**LANGUAGE**

**SPEAKS**

**READS**

**WRITES**

**ENGLISH**

C

C

C

**FRENCH**

C

C

C

## PARTICIPATION IN FINANCED COMPETITIVE RESEARCH PROJECTS (1)

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**TITLE: Physiological energetics of the cockle: annual evolution of individual production in relation to changes in food quality.**

SUPPORTING AGENCY: NATIONAL COMMITTEE OF SCIENCES & TECHNOLOGY  
FROM: 17<sup>TH</sup> SEPTEMBER 1986 TO: 17<sup>TH</sup> SEPTEMBER 1989

RESEARCH LEADER: *Dr. Enrique Navarro Adorno*

---

**TITLE: Feeding responses and digestive adaptations in bivalve molluscs under different food quality regimes: physiological implications.**

SUPPORTING AGENCY: NATIONAL COMMITTEE OF SCIENCES & TECHNOLOGY (MAR-89-0185)  
FROM: DECEMBER 1989 TO: DECEMBER 1992

RESEARCH LEADER: *Dr. Enrique Navarro Adorno*

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**TITLE: Allocation of assimilated energy in the bivalve *Cerastoderma edule* fed with phytoplankton.**

SUPPORTING AGENCY: UNIVERSITY OF THE BASQUE COUNTRY (UPV 154.310-EA145/92)  
FROM: 2<sup>ND</sup> FEBRUARY 1993 TO: 2<sup>ND</sup> FEBRUARY 1994

RESEARCH LEADER: *Dr. Maria Mercedes Ortega Hidalgo*

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**TITLE: Evaluation of potential resources in an estuary using differential sexton components by suspension feeding bivalves.**

SUPPORTING AGENCY: NATIONAL COMMITTEE OF SCIENCES & TECHNOLOGY (AMB93-0461)  
FROM: 24<sup>TH</sup> MAY 1993 TO: 24<sup>TH</sup> MAY 1996

RESEARCH LEADER: *Dr. Enrique Navarro Adorno*

---

**TITLE Body partitioning of assimilation in the cockle *Cerastoderma edule*: feeding, fasting and re-feeding effects.**

SUPPORTING AGENCY: UNIVERSITY OF THE BASQUE COUNTRY (UPV 154.310-EA089/93)  
FROM: 27<sup>TH</sup> DECEMBER 1993 TO: 27<sup>TH</sup> DECEMBER 1994

RESEARCH LEADER: *Dr. Maria Mercedes Ortega Hidalgo*

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**TITLE: Nutrition in the common snail *Helix aspersa* Müller. Influence of different synthetic diets.**

SUPPORTING AGENCY: DEPT OF INDUSTRY, AGRICULTURE & FISHERIES OF THE BASQUE GOVERNMENT  
FROM: JULY 1996 TO: JULY 1998

RESEARCH LEADER: *Dr. Maria Mercedes Ortega Hidalgo*

## PARTICIPATION IN FINANCED COMPETITIVE RESEARCH PROJECTS (2)

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**TITLE:** Nutrition in the cockle *Cerastoderma edule*: utilization of assimilated energy with different phytoplankton diets.

**SUPPORTING AGENCY:** UNIVERSITY OF THE BASQUE COUNTRY (UPV 154.310-EA258/96)  
**FROM:** 24<sup>th</sup> JANUARY, 1997 **TO:** 24<sup>th</sup> JANUARY, 1998

**RESEARCH LEADER:** Dr. Maria Mercedes Ortega Hidalgo

---

**TITLE:** Role of infaunal bivalves in matter and energy exchanges in estuaries.

**SUPPORTING AGENCY:** NATIONAL COMMITTEE OF SCIENCES & TECHNOLOGY (MAR-96/1830)  
**FROM:** 2<sup>nd</sup> DECEMBER 1996 **TO:** 2<sup>nd</sup> DECEMBER 1999

**RESEARCH LEADER:** Dr. Juan Ignacio Pérez Iglesias

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**TITLE:** Pelagic-benthic exchange in Urdaibai Estuary: an approach to modelling the role of bivalves.

**SUPPORTING AGENCY:** BASQUE GOVERNMENT (MPV-1998-6)  
**FROM:** 1<sup>st</sup> JANUARY 1999 **TO:** 1<sup>st</sup> de JANUARY 2001

**RESEARCH LEADER:** Dr. Miren Bego Urrutia Barandika

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**TITLE:** Contribution of detritus from vascular plants and macrophyte algae to the energy balance in the bivalve *Cerastoderma edule*.

**SUPPORTING AGENCY:** BASQUE GOVERNMENT (PI-1999-92)  
**FROM:** 31<sup>st</sup> DECEMBER 1999 **TO:** 31<sup>st</sup> DECEMBER 2002

**RESEARCH LEADER:** Dr Irrintzi Ibarrola Bellido

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**TITLE:** ALFA-COSTA NETWORK

**SUPPORTING AGENCY:** EUROPEAN UNION  
**FROM:** SEPTEMBER 1996 **TO:** SEPTEMBER -1998

**RESEARCH LEADER** Dr. Mathias Wolff

---

**TITLE:** Grant to consolidated research groups

**SUPPORTING AGENCY:** UNIVERSITY OF THE BASQUE COUNTRY (154.310-G07/99)  
**FROM:** 31<sup>st</sup> DECEMBER 1999 **TO:** 31<sup>st</sup> DECEMBER 2002

**RESEARCH LEADER:** Dr. Enrique Navarro Adorno

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### PARTICIPATION IN FINANCED COMPETITIVE RESEARCH PROJECTS (3)

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**TITLE: INTEGRATED MANAGEMENT OF TROPICAL COASTAL AREAS (GIACT)**

**SUPPORTING AGENCY:** EUROPEAN UNION (II-0118-FA) NETWORK ALFA-GIACT  
**FROM:** JUNE-2002 **TO:** DECEMBER-2006

**RESEARCH LEADER:** *Dr. Álvaro Morales*

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**TITLE: Grant to consolidated research groups**

**SUPPORTING AGENCY:** UNIVERSITY OF THE BASQUE COUNTRY (154.310-G07/02)  
**FROM:** MARCH 2003 **TO:** MARCH 2006

**RESEARCH LEADER:** *Dr. Enrique Navarro Adorno*

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**TITLE: Growth of the common snail *Helix aspersa*. Physiological indicators for selecting culture snails.**

**SUPPORTING AGENCY:** DEPT OF INDUSTRY, AGRICULTURE & FISHERIES OF THE BASQUE GOVERNMENT  
**FROM:** MARCH 2009 **TO:** MARCH 2011

**RESEARCH LEADER:** *Dr. Maria Mercedes Ortega Hidalgo*

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**TITLE: Study of variation of life-cycle parameters of common slug *Arion ater* (L.) associated to climatic change. A phenological approach comparing populations from Kanala (Atlantic Northern Spain) and As (Southern Norway).**

**SUPPORTING AGENCY:** UNIVERSITY OF THE BASQUE COUNTRY (NUPV10/12)  
**FROM:** JANUARY 2011 **TO:** DECEMBER 2011

**RESEARCH LEADER:** *Dr. Jesús Maria Txurruka Argarate*

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**TITLE: Impact of climate change stressors on calcifying and non-calcifying marine life stages: predicting tipping points for persistence in a changing ocean.**

**SUPPORTING AGENCY:** AUSTRALIAN RESEARCH COUNCIL DISCOVERY PROJECT (\$378,000 over 3 years).  
**FROM:** FEBRUARY 2012 **TO:** JULY 2012

**RESEARCH LEADER:** *Prof. Dr. Maria Byrne*

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**TITLE: Research Group of the Basque University Network: Animal ecotoxicity and biodiversity.**

**SUPPORTING AGENCY:** BASQUE GOVERNMENT (GIU16/61)  
**FROM:** January 2017 **TO:** December 2019

**RESEARCH LEADER:** *Dr. Pilar Rodriguez Rodriguez*

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## **PARTICIPATION IN FINANCED COMPETITIVE RESEARCH PROJECTS (4)**

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***TITLE:*** Animal ecotoxicity and biodiversity.

***SUPPORTING AGENCY:*** BASQUE GOVERNMENT (GRANTS TO RESEARCH GROUPS OF THE BASQUE UNIVERSITY NET: PPG17/69))

***FROM:*** January 2017

***TO:*** December 2018

***RESEARCH LEADER:*** Dr. Pilar Rodriguez Rodriguez

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## PUBLICATIONS (1)

---

**AUTHORS: Navarro, E., M. M. Ortega & J. M. Madariaga, 1981**

**TITLE:** Effect of body size, temperature and shore level on aquatic and aerial respiration of *Actinia equina* L. (Anthozoa)

**REFERRED JOURNAL ARTICLES:** *J.Exp.Mar.Biol.Ecol.*, **53**: 153 - 162.

---

**AUTHORS: Navarro, E., J. M. Madariaga & M. M. Ortega, 1981.**

**TITLE:** Statistical modelling of factors affecting metabolism in *Actinia equina* L.

**REFERRED JOURNAL ARTICLES:** *Oecologia aquatica*, **5**: 53 – 58.

---

**AUTHORS: Navarro, E. & M. M. Ortega, 1984**

**TITLE:** Amino acid accumulation from glucose during air exposure and anoxia in the sea anemone *Actinia equina* L

**REFERRED JOURNAL ARTICLES:** *Comp. Biochem. Physiol.*, **78B**: 199-202.

---

**AUTHORS: Ortega M. M., J. I. P. Iglesias & E. Navarro, 1984**

**TITLE:** Acclimation to temperature in *Actinia equina* L.: Effects of season and shore level on aquatic oxygen consumption.

**REFERRED JOURNAL ARTICLES:** *J.Exp.Mar.Biol. Ecol.*, **76**: 79-87.

---

**AUTHORS: Navarro, E. y M. M. Ortega, 1985**

**TITLE:** Metabolic effects of air exposure and post-aerial response in the intertidal anthozoan *Actinia equina* L.

**REFERRED JOURNAL ARTICLES:** *Rev. Esp. Fisiol.*, **41**: 471-478.

---

**AUTHORS: Navarro, E., M. M. Ortega & J. I. P. Iglesias, 1987**

**TITLE:** An analysis of variables affecting oxygen consumption in *Actinia equina* L. (Anthozoa) from two shore positions.

**REFERRED JOURNAL ARTICLES:** *Comp. Biochem. Physiol.*, **86A**: 233-240.

---

**AUTHORS: Ortega, M. M., J. I. P. Iglesias y E. Navarro, 1987**

**TITLE:** Effects of experimental acclimation to temperature on the respiratory metabolism of *Actinia equina* L. (Cnidaria, Anthozoa)

**REFERRED JOURNAL ARTICLES:** *Cuad. Marisq. Publ. Tec.*, **11**: 213-223.

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## PUBLICATIONS (2)

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**AUTHORS: Navarro, E., J. I. P. Iglesias & M. M. Ortega, 1987**

**TITLE:** Contribution of natural sediment to growth and energetics of *Cerastoderma edule*.

**REFERRED JOURNAL ARTICLES:** *Cuad. Marisq. Publ. Tec.*, **12**: 407-412.

---

**AUTHORS: Ortega M. M., J. M. López de Pariza & E. Navarro, 1988**

**TITLE:** Seasonal changes in the biochemical composition of the sea anemone *Actinia equina* as related to body size and shore level.

**REFERRED JOURNAL ARTICLES:** *Mar. Biol.*, **97**:137-143.

---

**AUTHORS: Ortega, M. M. & E. Navarro, 1988**

**TITLE:** Seasonal changes of the major lipid classes in *Actinia equina* L. (Anthozoa) in relation to body size and tidal position.

**REFERRED JOURNAL ARTICLES:** *Comp. Biochem. Physiol.*, **89A**: 699-704.

---

**AUTHORS: Navarro, E., J.I.P. Iglesias & M.M. Ortega, 1992**

**TITLE:** Natural sediment as a food source for the cockle *Cerastoderma edule* (L.): effect of variable particle concentration on feeding, digestion and the scope for growth.

**REFERRED JOURNAL ARTICLES:** *J. Exp.Mar.Biol.Ecol.*, **156**: 69-87.

---

**AUTHORS: Navarro, E., J.I.P. Iglesias, M.M. Ortega & X Larretxea, 1994**

**TITLE:** The basis for a functional response to variable food quantity and quality in cockles *Cerastoderma edule* (Bivalvia,Cardiidae)

**REFERRED JOURNAL ARTICLES:** *Physiol.Zool.* **67**(2): 468-496

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**AUTHORS: Txurruka, J.M., O. Altzua & M. M. Ortega, 1996**

**TITLE:** Organic matter partitioning in *Arion ater*: allometric growth of somatic and reproductive tissues throughout its lifespan.

**REFERRED JOURNAL ARTICLES:** *BCPC No. 66: Slug & Snail Pests in Agriculture*, pp. 141-148

---

**AUTHORS: Txurruka, J. M. & M. M. Ortega, 1996**

**TITLE:** Reproductive development in *Arion ater*: influence of food and stored carbohydrate

**REFERRED JOURNAL ARTICLES:** *BCPC No. 66: Slug & Snail Pests in Agriculture*, pp. 371-376

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### PUBLICATIONS (3)

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**AUTHORS :Ortega, M. M., I. Rodríguez & J. M. Txurruka, 2003**

**TITLE:** Growth measurement in the land snail *Helix aspersa* (Muller) fed artificial diets.

**REFERRED JOURNAL ARTICLES:** *BCPC No. 806: Slugs & Snails: Agricultural, Veterinary and Environmental perspectives*, pp.153-158.

---

**AUTHORS: Txurruka, J. M., A. Butrón, U. Arambaltza & M. M. Ortega, 2003**

**TITLE:** Reallocation of somatic organic matter to reproductive tissues and to egg-lying in the slug *Arion ater* (L.)

**REFERRED JOURNAL ARTICLES:** *BCPC No. 806: Slugs & Snails: Agricultural, Veterinary and Environmental perspectives*, pp.51-56

---

**AUTHORS: Ortega, M. M., J. M. Txurruka & U. Arambaltza, 2005**

**TITLE:** A comparison of growth trends among separate populations of the slug *Arion ater* (L.) in Biscay (Northern Spain)

**REFERRED JOURNAL ARTICLES:** *IOBC/wprs Bulletin* Vol. **28** (6): 29-34. ISBN 92-9067-178- 3 [vi + 134 pp.]

---

**AUTHORS: Txurruka, J. M., M. M. Ortega & J. Sáenz, 2005**

**TITLE:** Modelling growth of the reproductive tract of slugs *Arion ater* from two populations of Urdaibai (Biscay, Northern Spain)

**REFERRED JOURNAL ARTICLES:** *IOBC/wprs Bulletin* Vol. **28** (6): 41-52. ISBN 92-9067-178- 3 [vi + 134 pp.]

---

**AUTHORS: Loidi, J. , M. M. Ortega & O. Orrantia, 2007**

**TITLE:** Vegetation Science and the implementation of the Habitat Directive in Spain: up-to-now experiences and further development to provide tools for management

**REFERRED JOURNAL ARTICLES:** *Fitosociología* Vol. **44** (1) suppl. 1:9-16

---

**AUTHORS: Orrantia, O., M.M.Ortega, O.Quirós & J.Loidi , 2008**

**TITLE:** Environmental services of the forest: an essay in a European Atlantic river basin based on a Central American experience.

**REFERRED JOURNAL ARTICLES:** *Revista de Biología Tropical* Vol. **56** (4): 2087-2098

---

**AUTHORS: Ortega-Hidalgo,M.M.,Rodríguez-Zaldua,I & J.M.Txurruka, 2011**

**TITLE:** Hibernation and latitude in *Helix aspersa*: an attempt to integrate environmental restrictions to active life, length of stasis endurance and metabolic costs.

**REFERRED JOURNAL ARTICLES:** *IOBC/wprs Bulletin* Vol. 64: 173-177. ISBN 978-92-9067-239-5 [XII + 240 pp.].

## PUBLICATIONS (4)

---

**AUTHORS: Rodríguez-Zaldua I, Txurruka JM and Ortega-Hidalgo M.M., 2011**

**TITLE:** Seasonal changes in feeding rates and respiratory metabolism in two cohorts of *Helix aspersa* (Müller) across an extreme heat wave: laboratory and field studies.

**REFERRED JOURNAL ARTICLES:** *IOBC/wprs Bulletin* Vol. 64: 207-211. ISBN 978-92-9067-239-5 [XII + 240 pp.].

---

**AUTHORS: Ortega-Hidalgo, M.M. Núñez-García H.A & Txurruka, J.M., 2011**

**TITLE:** Energy balance of lettuce fed *Arion ater* (Biscay, Northern Spain) throughout development.

**REFERRED JOURNAL ARTICLES:** *IOBC/wprs Bulletin* Vol. 64: 167-172. ISBN 978-92-9067-239-5 [XII + 240 pp.].

---

**AUTHORS: Txurruka, JM & Ortega-Hidalgo, M.M., 2011**

**TITLE:** Influence of life cycle and food quality on polysaccharide and total carbohydrate content of the bodwall and genitalia of *Arion ater* L. (Gastropoda Pulmonata).

**REFERRED JOURNAL ARTICLES:** *IOBC/wprs Bulletin* Vol. 64: 227-233. ISBN 978-92-9067-239-5 [XII + 240 pp.].

---

**AUTHORS: Ortega-Hidalgo, MM., Iparraguirre-Bolaños, E. & Brea-San Nicolás C., 2017**

**TITLE:** Biomass assessment in annelids: A photogrammetric method suitable for hatchlings and adults developed in *Eisenia andrei*.

**REFERRED JOURNAL ARTICLES:** *Spanish Journal of Soil Sciences*. Vol.7 (1):1-16. ISSN 2253-6574

---

**AUTHORS: Orrantia, O., Ortega-Hidalgo, M.M., Loidi, J., 2019**

**TITLE:** Ecological landscape assessment in a silvicultural system in the Urdaibai Biosphere Reserve (Basque Country, Spain).

**REFERRED JOURNAL ARTICLES:** *Mediterranean Botany* Vol.40 (1):95-110.

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## RESEARCH PROJECTS BY CONTRACT IN COLLABORATION WITH PRIVATE ENTERPRISES

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**TITLE:** Growth evaluation in common octopus (*Octopus vulgaris*) under intensive culture conditions: energy balance.

**ENTERPRISE OR ADMINISTRATION:** ARRAÑOLA S.A. & BASQUE GOVERNMENT  
(Research & Innovation in Agriculture, Food and Fisheries, BOPV nº 17, 413/Jan 27<sup>th</sup> 1998)

**FROM:** JANUARY, 1998

**TO:** DECEMBER 1999

**RESEARCH LEADER:** Dr. Maria Mercedes Ortega Hidalgo

---

**TITLE:** BIODIVERSITY PLATFORM. Platform to identify sites of conservation interest and restoration areas within the historical territory of Biscay

**ENTERPRISE OR ADMINISTRATION:** BIZKAIBERRI PROIEKTUAK, BASQUE GOVERNMENT  
expediente nº 6/12/72/2008/277

**FROM:** JANUARY 2009

**TO:** DECEMBER 2009

**RESEARCH LEADER:** Dr JAVIER LOIDI ARREGUI

---

**TITLE:** Comparative evaluation of worm-compost and aerobic compost in piles: an approach to build a pilot plant to produce controlled aerobic compost.

**ENTERPRISE OR ADMINISTRATION:** Areitz-Soroa & BASQUE GOVERNMENT (TR40195)

**FROM:** JULY 2011

**TO:** JULY 2012

**RESEARCH LEADER:** Dr. Maria Mercedes Ortega Hidalgo

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## PATENTS

---

**INVENTOR**  
**TITLE**

**NUMBER**                      **PRIORITY COUNTRY:**                      **PRIORITY DATE:**  
**TITULAR ENTITY:**  
**COUNTRIES OF EXPEDITION:**  
**CORPORTIONS EXPLOITING:**

---

## RESEARCH STAGES

KEY P= postdoctoral. VP = VISITING PROFESSOR

---

**INSTITUTION:** THE STATE UNIVERSITY OF UTRECHT. LABORATORY OF CHEMICAL ANIMAL PHYSIOLOGY

**CITY:** UTRECHT

**COUNTRY:** THE NETHERLANDS

**YEAR:** 1986

**TIME:** 4 MONTHS

**SUBJECT:** *Interorgan transport in Asterias rubens.*

**KEY :** P

---

**INSTITUTION:** THE UNIVERSITY OF SYDNEY. SCHOOL OF BIOLOGICAL SCIENCES. SYDNEY INSTITUTE FOR MARINE SCIENCES. CENTRE FOR RESEARCH ON ECOLOGICAL IMPACTS ON COASTAL CITIES.

**CITY:** SYDNEY

**COUNTRY:** AUSTRALIA

**YEAR:** 2012

**TIME:** 6 MONTHS

**SUBJECT:** *Marine Life histories in a climate change ocean.*

**KEY:** VP

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## PARTICIPATION IN CONGRESS (1)

---

**AUTHORS:** Navarro, E., J. M. Madariaga & M. M. Ortega.

**TITLE:** Modelo estadístico de interacción múltiple entre factores que afectan al metabolismo de *Actinia equina*.

**PARTICIPATION:** *Oral presentation.*

**CONGRESS:** II SYMPOSIUM OF MARINE BENTHIC STUDIES. Barcelona. 1981.

**PUBLICATION:** *ABSTRACTS OF THE II SYMPOSIUM OF MARINE BENTHIC STUDIES*, pp.25

**CITY/COUNTRY:** Barcelona (SPAIN)

**YEAR:** 1981

---

**AUTHORS:** Ortega, M. M., J. I. P. Iglesias y E. Navarro,

**TITLE:** Efecto de la aclimatación experimental a la temperatura sobre el metabolismo respiratorio de *Actinia equina* L. (Cnidaria, Anthozoa)

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** III SYMPOSIUM OF MARINE BENTHIC STUDIES

**PUBLICATION:** *ACTAS del III SYMPOSIUM OF MARINE BENTHIC STUDIES*

**CITY/COUNTRY:** Pontevedra (SPAIN)

**YEAR:** 1982

---

**AUTHORS:** Ortega, M. M., J. M. López de Pariza y E. Navarro

**TITLE:** Seasonal variation of oxygen consumption and biochemical composition in *Actinia equina* L.

**PARTICIPATION:** *Poster*

**CONGRESS:** IV SYMPOSIUM OF MARINE BENTHIC STUDIES

**PUBLICATION:** *Actas del IV SYMPOSIUM OF MARINE BENTHIC STUDIES*, pp. 321-332.

**CITY/COUNTRY:** Lisboa (PORTUGAL)

**YEAR:** 1984

---

**AUTHORS:** Navarro, E., J. I. P. Iglesias y M. M. Ortega

**TITLE:** Contribución del sedimento natural al crecimiento y la energética de *Cerastoderma edule*

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** II NATIONAL CONGRESS of AQUACULTURE

**PUBLICATION:** *ACTS del II NATIONAL CONGRESS of AQUACULTURE. Cuad.Marisq. Publ. Tec.*, 12: 407-412.

**CITY/COUNTRY:** Santiago de Compostela (SPAIN)

**YEAR:** 1987

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**PARTICIPATION:** *Attendance*

**CONGRESS:** International Symposium on mussel / Seminario Internacional del Mejillón.

**CITY/COUNTRY:** Illa da Toxa-O Grove (Galicia)

**YEAR:** 1989

---

**AUTHORS:** Ortega, M. M., R. Mayoral Ortiz y J. M. Martínez González

**TITLE:** Evolution of respiratory quotient in the cockle *Cerastoderma edule* in relation to reproductive condition.

**PARTICIPATION:** *Poster*

**CONGRESS:** VIII SYMPOSIUM OF MARINE BENTHIC STUDIES

**PUBLICATION:** *Abstracts from VIII SYMPOSIUM OF MARINE BENTHIC STUDIES*, pp.314-315

**CITY/COUNTRY:** Blanes (SPAIN)

**YEAR:** 1994

## PARTICIPATION IN CONGRESS (2)

---

**AUTHORS:** Ortega, M.M., J.M. Martínez y F. Santorcuato

**TITLE:** Digestive responses of the cockle *Cerastoderma edule* fed with *Tetraselmis suecica*.

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** V NATIONAL CONGRESS of AQUACULTURE.

**PUBLICATION:** Abstracts from V NATIONAL CONGRESS of AQUACULTURE

**CITY/COUNTRY:** Sant Carles de la Rapita /Tarragona (SPAIN)

**YEAR:** 1995

---

**AUTHORS:** Txurruka, J.M., O. Altzua & M. M. Ortega

**TITLE:** Organic matter partitioning in *Arion ater*: allometric growth of somatic and reproductive tissues throughout its lifespan.

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** *Symposium of the British Crop Protection Council*

**PUBLICATION:** *Symposium Proceedings No. 66: Slug & Snail Pests in Agriculture*, pp. 141-148

**CITY/COUNTRY:** Canterbury (U.K.)

**YEAR:** 1996

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**AUTHORS:** Txurruka, J. M. & M. M. Ortega

**TITLE:** Reproductive development in *Arion ater*: influence of food and stored carbohydrate

**PARTICIPATION:** *Poster*

**CONGRESS:** *Symposium of the British Crop Protection Council*

**PUBLICATION:** *Symposium Proceedings No. 66: Slug & Snail Pests in Agriculture*, pp. 371-376

**CITY/COUNTRY:** Canterbury (U.K.)

**YEAR:** 1996

---

**AUTHORS:** Ortega, M. M. & F. Santorcuato

**TITLE:** Short-term responses of the cockle *Cerastoderma edule* to food deprivation: feeding and digestive behaviour

**PARTICIPATION:** *Poster*

**CONGRESS:** 31<sup>st</sup> European Marine Biology Symposium

**PUBLICATION:** *Abstracts of the 31st EMBS*, pp 68.

**CITY/COUNTRY:** San Petesburgo (Rusia)

**YEAR:** 1996

---

**AUTHORS:** Ortega, M. M. & M. S. Méndez Vallinas

**TITLE:** Time course of body partitioning of assimilated carbon in the cockle *Cerastoderma edule*

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** Third Intl. Symposium on Research for Aquaculture: fundamental and applied aspects  
European Society for Comparative Physiology and Biochemistry 18th annual conference

**PUBLICATION:** Abstracts of 3rd Intl. Symp. Res. for Aquaculture: fundamental and applied aspects. pp. 177.

**CITY/COUNTRY:** Barcelona (SPAIN)

**YEAR:** 1997

---

**AUTHORS:** Ortega, M. M., Bonilla, S. & Méndez, M. S.

**TITLE:** Seasonal patterns of short-term allocation of nutrients in the cockle *Cerastoderma edule* fed on phytoplankton

**PARTICIPATION:** *Poster*

**CONGRESS:** Fifth International Congress of Comparative Physiology and Biochemistry

**PUBLICATION:** *Comp.Biochem Physiol.* 12<sup>a</sup> (Suppl):S139

**CITY/COUNTRY:** Calgary (CANADA)

**YEAR:** 1999

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### PARTICIPATION IN CONGRESS (3)

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**AUTHORS:** Txurruka, J. M., Ortega, M. M., Bilbao, A. & Butrón, A.

**TITLE:** Absorption efficiencies of biochemical compounds in female slugs (*Arion ater* L.) fed on synthetic diets.

**PARTICIPATION:** *Poster*

**CONGRESS:** Fifth International Congress of Comparative Physiology and Biochemistry

**PUBLICATION:** *Comp.Biochem Physiol.* 12<sup>a</sup> (Suppl):S140

**CITY/COUNTRY:** Calgary (CANADA)

**YEAR:** 1999

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**AUTHORS:** Ortega, M. M, I. Rodríguez & J. M. Txurruka

**TITLE:** Growth measurement in the land snail *Helix aspersa* (Muller) fed artificial diets.

**PARTICIPATION:** *Poster*

**CONGRESS:** *Symposium of the British Crop Protection Council and the Malacological Society of London*

**PUBLICATION:** *Symposium Proceedings No. 806: Slugs & Snails: Agricultural, Veterinary and Environmental perspectives*, pp.153-158

**CITY/COUNTRY:** Canterbury (U.K.)

**YEAR:** 2003

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**AUTHORS:** Txurruka, J. M., A. Butrón, U. Arambaltza & M. M. Ortega

**TITLE:** Reallocation of somatic organic matter to reproductive tissues and to egg-lying in the slug *Arion ater* (L.)

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** *Symposium of the British Crop Protection Council and the Malacological Society of London*

**PUBLICATION:** *Symposium Proceedings No. 806: Slugs & Snails: Agricultural, Veterinary and Environmental perspectives*, pp.51-56

**CITY/COUNTRY:** Canterbury (U.K.)

**YEAR:** 2003

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**AUTHORS:** Ortega, M. M., J. M. Txurruka & U. Arambaltza

**TITLE:** A comparison of growth trends among separate populations of the slug *Arion ater* (L.) in Biscay (Northern Spain)

**PARTICIPATION:** *Oral presentation.*

**CONGRESS:** *International Workshop co financed by the International Organization of Biological Control (WPRS). Workshop: Slugs and Snails Subgroup. Convenor: Dr. William Symondson*

**PUBLICATION:** *Abstracts of the meeting at Schloss (Flehhingen, Stuttgart), 26-29 October 2004.*

**CITY/COUNTRY:** Stuttgart (Alemania)

**YEAR:** 2004

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**AUTHORS:** Txurruka, J. M., M. M. Ortega & J. Sáenz

**TITLE:** Modelling growth of the reproductive tract of slugs *Arion ater* from two populations of Urdaibai (Biscay, Northern Spain)

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** *International Workshop co financed by the International Organization of Biological Control (WPRS). Workshop: Slugs and Snails Subgroup. Convenor: Dr. William Symondson*

**PUBLICATION:** *Abstracts of the meeting at Schloss (Flehhingen, Stuttgart), 26-29 October 2004*

**CITY/COUNTRY:** Stuttgart (Alemania)

**YEAR:** 2004

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## PARTICIPATION IN CONGRESS (4)

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**AUTHORS:** Orrantia Albizu, O., M. M. Ortega Hidalgo & J. Loidi Arregui

**TITLE:** *Environmental Services of the forest: a tool for conservation.*

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** *II CONGRESS OF ENVIRONMENTAL EDUCATION IN PROTECTED AREAS. XII JOURNEYS OF URDAIBAI ABOUT SUSTAINABLE DEVELOPMENT*

**PUBLICATION:** *Libro de resúmenes del II CONGRESS Ambiental de Educación en espacios protegidos. pp.40*

**CITY/COUNTRY:** *Bermeo (Vizcaya) (SPAIN)*

**YEAR:** *2006*

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**AUTHORS:** Ortega-Hidalgo, M.M., Txurruka, J.M., Núñez-García, H.A., & Rodríguez-Zaldua, I

**TITLE:** *Feeding growth and reproduction in terrestrial molluscs*

**PARTICIPATION:** *Poster*

**CONGRESS:** *1<sup>st</sup> research journeys at the faculty of sciences & technology of the UPV/EHU*

**PUBLICATION:** *Abstracts of the 1<sup>st</sup> research journeys at the faculty of sciences & technology of the UPV/EHU (21-23 MAY 2008) pp.80 y 208. ISBN: 978-84-9860-118-3.*

**CITY/COUNTRY:** *Leioa (Vizcaya) (SPAIN)*

**YEAR:** *2008*

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**AUTHORS:** Ortega-Hidalgo, M.M., Txurruka, J.M., Núñez-García, H.A., & Rodríguez-Zaldua, I  
**Brea Carlos, Mendiguren Laida & Bizarro, Cristina**

**TITLE:** *Feeding growth and reproduction in terrestrial invertebrates.*

**PARTICIPATION:** *poster*

**CONGRESS:** *2<sup>ND</sup> research journeys at the faculty of sciences & technology of the UPV/EHU*

**PUBLICATION:** *Abstracts of the 2<sup>ND</sup> research journeys at the faculty of sciences & technology of the UPV/EHU (15-17 MARCH 2010) pp.33.*

**CITY/COUNTRY:** *Leioa (Vizcaya, SPAIN)*

**YEAR:** *2010*

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**AUTHORS:** Ortega-Hidalgo, M.M., Rodríguez-Zaldua, I & J.M. Txurruka

**TITLE:** *Hibernation and latitude in *Helix aspersa*: an attempt to integrate environmental restrictions to active life, length of ecstasis endurance and metabolic costs*

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** *International Workshop co financed by the International Organization of Biological Control (WPRS). Workshop: Slugs and Snails Subgroup. Convenor: Dr. William Symondson. Topic: Slugs and Snail control in the 21<sup>st</sup> Century*

**PUBLICATION:** *Abstracts of the meeting at Cardiff (Wales), 23-25 March 2010 pp.29*

**CITY/COUNTRY:** *Cardiff (Wales) UK.*

**YEAR:** *2010*

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**AUTHORS:** Ortega-Hidalgo, M.M. Núñez-García, H.A., & Txurruka, J.M.

**TITLE:** *Energy balance of lettuce fed *Arion ater* (Biscay, Northern Spain) throughout development.*

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** *International Workshop co financed by the International Organization of Biological Control (WPRS). Workshop: Slugs and Snails Subgroup. Convenor: Dr. William Symondson Topic: Slugs and Snail control in the 21<sup>st</sup> Century*

**PUBLICATION:** *Abstracts of the meeting at Cardiff (Wales), 23-25 March 2010 pp.28*

**CITY/COUNTRY:** *Cardiff (Wales) UK.*

**YEAR:** *2010*

## CONGRESS (5)

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**AUTHORS:** Rodríguez-Zaldua I, Txurruka JM and Ortega-Hidalgo MM.

**TITLE:** Seasonal changes in feeding rates and respiratory metabolism in two cohorts of *Helix aspersa* (Müller) across an extreme heat wave: laboratory and field studies.

**PARTICIPATION:** *Poster.*

**CONGRESS:** *International Workshop co financed by the International Organization of Biological Control (WPRS). Workshop: Slugs and Snails Subgroup. Convenor: Dr. William Symondson Topic: Slugs and Snail control in the 21<sup>st</sup> Century.*

**PUBLICATION:** *Abstracts of the meeting at Cardiff (Wales), 23-25 March 2010 pp.49*

**CITY/COUNTRY:** *Cardiff (Wales) UK.*

**YEAR:** *2010*

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**AUTHORS:** Txurruka, JM & Ortega-Hidalgo, MM.

**TITLE:** Influence of life cycle and food quality on polysaccharide and total carbohydrate content of the bodwall and genitalia of *Arion ater* L. (Gastropoda Pulmonata)

**PARTICIPATION:** *Oral presentation.*

**CONGRESS:** *International Workshop co financed by the International Organization of Biological Control (WPRS). Workshop: Slugs and Snails Subgroup. Convenor: Dr. William Symondson Topic: Slugs and Snail control in the 21<sup>st</sup> Century.*

**PUBLICATION:** *Abstracts of the meeting at Cardiff (Wales), 23-25 March 2010 pp.39*

**CITY/COUNTRY:** *Cardiff (Wales) UK.*

**YEAR:** *2010*

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**AUTHORS:** Ortega, MM.

**TITLE:** University cooperation in postgraduate education: corridors Europe-South America and the use of TICS in the elaboration and management of a Master Programme.

**PARTICIPATION:** *Member of Scientific Committee. Caleidoscopio de experiencias y casos: Entornos virtuales educativos en Cooperación. ORAL PRESENTATION.*

**CONGRES :** *III Jornadas de Educación, Desarrollo, Tecnología y Cooperación: Bit a bit. De unidad en unidad. Entornos Educativos en Cooperación.*

**PUBLICATION:** *Libro de Resúmenes de las Jornadas celebradas en Vitoria del 20-22 de MAY 2010.pp.*

**CITY/COUNTRY:** *Vitoria (Alava)*

**YEAR:** *2010*

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**AUTHORS:** Ortega, MM.

**TITLE:** Presentación del diagnóstico cero de la cooperación UPV/EHU .

**PARTICIPATION:** *invited participation*

**CONGRESS:** *Jornada de Cooperación al Desarrollo Universitario*

**CITY/COUNTRY:** *Bilbao (Vizcaya)*

**YEAR:** *2011*

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**AUTHORS:** Txurruka, J.M., Ortega M.M. & Rodríguez-Zaldua I.

**TITLE:** Bioclimatic change in terrestrial molluscs.

**PARTICIPATION:** *poster*

**CONGRESS:** *3<sup>rd</sup> research journeys at the faculty of sciences & technology of the UPV/EHU*

**PUBLICATION:** *Abstracts of the 3rd research journeys at the faculty of sciences & technology of the UPV/EHU (8-10 February 2012) pp.26. ISBN: 978-84-9860-853-3.*

**CITY/COUNTRY:** *Leioa (Vizcaya, SPAIN)*

**YEAR:** *2012*

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## CONGRESS (6)

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**AUTHORS:** Ortega, MM.

**PARTICIPATION:** *invited participation*

**CONGRESS:** Sandy Beach Workshop. The University of Sydney. March 20<sup>th</sup> 2012.

**CITY/COUNTRY:** Sydney (Australia)

**YEAR:** 2012

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**AUTHORS:** Ortega M.M.

**TITLE:** Thermal influence on aquatic metabolism of the intertidal sea anemone *Actinia tenebrosa* from Sydney (NSW, Australia): prospects in a warming ocean.

**PARTICIPATION:** *Oral presentation.*

**CONGRESS:** IV Congreso de Biodiversidad

**PUBLICATION:** Abstracts of the IV Conference of Biodiversity.

**CITY/COUNTRY:** Bilbao (Vizcaya, SPAIN). D.L. VI 23-2013

**YEAR:** 2013

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**AUTHORS:** Iparraguirre-Bolaños E, Brea-San Nicolas C. & M.M. Ortega-Hidalgo.

**TITLE:** Growth of *Eisenia andrei* (Bouché, 1972) in mesocosm.

**PARTICIPATION:** *Poster.*

**CONGRESS:** IV Congreso de Biodiversidad

**PUBLICATION:** Abstracts of the IV Conference of Biodiversity.

**CITY/COUNTRY:** Bilbao (Vizcaya, SPAIN). D.L. VI 23-2013

**YEAR:** 2013

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**AUTHORS:** Brea-San Nicolas C. & M.M. Ortega-Hidalgo.

**TITLE:** Effects of plaguicide Mesurol® in target and non-target species: hatching dynamics in *Cornu aspersum* and *Eisenia andrei*.

**TITLE: PARTICIPATION:** *Oral presentation.*

**CONGRESS:** IV Congreso de Biodiversidad

**PUBLICATION:** Abstracts of the IV Conference of Biodiversity.

**CITY/COUNTRY:** Bilbao (Vizcaya, SPAIN). D.L. VI 23-2013

**YEAR:** 2013

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**AUTHORS:** Oreina Orrantia-Albizu O., Ortega-Hidalgo M.M. & Loidi J.

**TITLE:** Conservation interest of hawthorn and meadows in la Reserva de la Biosfera de Urdaibai

**TITLE: PARTICIPATION:** *Poster.*

**CONGRESS:** IV Congreso de Biodiversidad

**PUBLICATION:** Abstracts of the IV Conference of Biodiversity.

**CITY/COUNTRY:** Bilbao (Vizcaya, SPAIN). D.L. VI 23-2013

**YEAR:** 2013

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**AUTHORS:** Iparraguirre-Bolaños E., Brea-San Nicolas C. & Ortega-Hidalgo, M.M.

**TITLE:** Individual Growth evaluation of the earthworm *Eisenia andrei* at low density in horse manure

**PARTICIPATION:** *Oral presentation*

**CONGRESS:** 4th research journeys at the Faculty of Sciences & Technology of the UPV/EHU

**PUBLICATION:** Abstracts of the 4th research journeys at the Faculty of Sciences & Technology of the UPV/EHU (12-13 FEBRUARY 2014) pp.27. ISBN: 978-84-9860-910-3.

**CITY/COUNTRY:** Leioa (Vizcaya) (SPAIN)

**YEAR:** 2014

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## CONGRESS (7)

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**AUTHORS:** **Iparraguirre-Bolaños E. & Ortega-Hidalgo,M.M,**

**TITLE:** Analysis of individual growth patterns in juveniles of *Eisenia andrei* grown on horse manure.

**PARTICIPATION:** **POSTER**

**CONGRESS :** *The First Global SOIL BIODIVERSITY CONFERENCE (2-5 December 2014)*

**PUBLICATION:** *Book of Abstracts of the First Global Soil Biodiversity Conference. DIJON (FRANCE), pp.133.*

**CITY/COUNTRY:** *DIJON (FRANCE)*

**YEAR:** **2014**

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**AUTHORS:** **Orrantia O., Loidi J. & Ortega-Hidalgo,M.M,**

**TITLE:** Analyzing topsoil characteristics associated to vegetation types in Atlantic Iberian Peninsula: soil resistance to desiccation as related to organic matter

**PARTICIPATION:** **POSTER**

**CONGRESS:** *The First Global SOIL BIODIVERSITY CONFERENCE (2-5 December 2014)*

**PUBLICATION:** *Book of Abstracts of the First Global Soil Biodiversity Conference. DIJON (FRANCE), pp.189.*

**CITY/COUNTRY:** *DIJON (FRANCE)*

**YEAR:** **2014**

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**AUTHORS:** **Orrantia O., Ortega-Hidalgo,M.M, Larrañaga A. & Loidi J.**

**TITLE:** Fragmentation pattern of an extinguishing temperate atlantic forest

**PARTICIPATION:** **POSTER**

**CONGRESS:** *VII Congreso de Biología de la Conservación de Plantas (30th September to 2nd October 2015, VITORIA)*

**PUBLICATION:** *Book of Abstracts of the VII Congreso de Biología de la Conservación de Plantas P55.pp.162*

**CITY/COUNTRY:** *VITORIA (SPAIN)*

**YEAR:** **2015**

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**AUTHORS:** **Ortega-Hidalgo,M.M, Iparraguirre-Bolaños,E. & Barrenetxea-Aretxabala M.**

**TITLE:** Photogrammetric techniques applied to morphometric studies in soft-bodied invertebrates.

**PARTICIPATION:** **Oral Presentation**

**CONGRESS:** *XV Conferencia Española y V Encuentro Iberoamericano de Biometría (22-25 September, 2015)*

**PUBLICATION:** *Book of Abstracts of the XV Spanish Conference and V Iberoamerican Meeting of Biometry pp.*

**CITY/COUNTRY:** *BILBAO (SPAIN)*

**YEAR:** **2015**

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**AUTHORS:** **Iparraguirre-Bolaños & Ortega-Hidalgo,M.M,**

**TITLE:** Individual Analysis of food quality of litter for epigeic earthworms: *Eisenia andrei* as a case study.

**PARTICIPATION:** **Oral presentation**

**CONGRESS:** *5th research journeys at the Faculty of Sciences & Technology of the UPV/EHU*

**PUBLICATION:** *Abstracts of the 5th research journeys at the Faculty of Sciences & Technology of the UPV/EHU (6th-7th April, 2015) pp.27. ISBN: 978-84-9860-910-3.*

**CITY/COUNTRY:** *LEIOA (Vizcaya) (SPAIN)*

**YEAR:** **2016**

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## CONGRESS (8)

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**AUTHORS:** Ortega M.M, & Barrenetxea-Aretxabala M.

**TITLE:** Distribution, growth and recruitment of *Actinia equina* (Cnidaria, Anthozoa) in the Cantabric Sea: crevices vs. Rock pools.

**PARTICIPATION:** *Oral Presentation*

**CONGRESS:** *Isobay15 (22-25 June, 2016)*

**PUBLICATION:** *Book of Abstracts of XV International Symposium on Oceanography of the Biscay Bay.(Isobay15). Changing Ecosystems: Natural vs anthropogenic effects. Pp 56.*

**CITY/COUNTRY:** *BILBAO (SPAIN)*

**YEAR:** *2016*

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**AUTHORS:** Iparraguirre-Bolaños & Ortega-Hidalgo,M.M,

**TITLE** An approach to biological quality of pasture lands: Viability of hatchlings of *Eisenia andrei* in aging grass

**PARTICIPATION:** *Poster*

**CONGRESS:** *EcoSummit 2016 Ecological Sustainability: Engineering Change (29<sup>th</sup> Aug-1<sup>st</sup> Sept)*

**PUBLICATION:** (ECOS2016\_1707). Book of Abstracts: P1.136.

**CITY/COUNTRY:** *Montpellier (FRANCE).*

**YEAR:** *2016*

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**AUTHORS:** Iparraguirre-Bolaños & Ortega-Hidalgo,M.M,

**TITLE :** Evaluation of soil quality in three vegetation units using parameters of the life cycle of *Eisenia andrei* as bioindicators

**PARTICIPATION:** *Oral Presentation*

**CONGRESS:** *VIII Congreso Ibérico de las Ciencias del Suelo (20th-22nd June)*

**PUBLICATION:** VIII Congreso Ibérico de las Ciencias del Suelo (**CICS2018**): pp. 590-593.

**CITY/COUNTRY:** *San Sebastian (SPAIN)*

**YEAR:** *2018*

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**AUTHORS:** Ortega-Hidalgo, M.Mercedes, Rodriguez-Zaldua, Iker, Txurruka,J.M.

**TITLE :** Morphological indicators of reproduction in the garden snail *Cornu aspersum*

**PARTICIPATION:** *Oral Presentation*

**CONGRESS:** *SIP/IOBC 2019 (Society for Invertebrate Pathology/ IOBC WPRS Working Group on Microbial and Nematode Congtrol of Invertebrate Pests: Subgroup Slugs and Snails)*

**PUBLICATION:** *Actas*

**CITY/COUNTRY:** *Valencia (SPAIN)*

**YEAR:** *2019*

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## DIRECTION OF PH. D THESIS

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**TITLE:** Studies on nutrition of *Arion ater* (L.). Influence of a variety of synthetic diets on growth and reproduction.

**DOCTORAL:** Jesús Maria Txurruka Argarate

**UNIVERSITY:** UPV/EHU

**YEAR:** 1992

**FACULTY OF SCIENCES**

**TRIBUNAL DECISION:** COMPETENT “cum laude”

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**TITLE:** Enegy balance in hatchlings of farm selected *Cornu aspersum* from different origins: a comparison of growth trends with life-cycle dynamics in a wild population

**DOCTORAL:** Iker Rodriguez Zaldua

**UNIVERSITY:** UPV/EHU (International Ph.D.)

**YEAR:** 2013 (September)

**FACULTY OF SCIENCES & TECHNOLOGY**

**TRIBUNAL DECISION:** COMPETENT “cum laude”

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**TITLE:** Ecological assessment of Cantabrian landscapes. A study of soil and vegetation quality at two Biscayan locations.

**DOCTORAL:** Oreina Orrantia Albizu

**UNIVERSITY:** UPV/EHU

**YEAR:** 2016 (July)

**FACULTY OF SCIENCES**

**TRIBUNAL DECISION:** EXCELLENT “cum laude”

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**TITLE:** Growth, reproduction and recruitment of *Eisenia andrei* in natural substrates: A functional approach

**DOCTORAL:** Esther Iparraguirre Bolaños

**UNIVERSITY:** UPV/EHU (International Ph.D.)

**YEAR:** 2016 (December)

**FACULTY OF SCIENCES & TECHNOLOGY**

**TRIBUNAL DECISION:** EXCELLENT “cum laude”

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## DIRECTION OF MASTER (MSc) THESIS

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**TITLE:** Respiratory metabolism in *Actinia equina* L.: thermal environmental acclimation.

**CANDIDATE:** Juan Ignacio Perez Iglesias

**UNIVERSITY:** UPV/EHU

**YEAR:** 1982 (JULY)

**FACULTY OR SCIENCES/ DEPT OF BIOLOGY**

**TRIBUNAL DECISION:** COMPETENT EXCELLENT.

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**TITLE:** Seasonal variation in respiratory metabolism and biochemical composition in *Actinia equina* L.

**CANDIDATE:** Jose María Lopez de Pariza Berroa.

**UNIVERSITY:** UPV/EHU

**YEAR:** 1983 (JULY)

**FACULTY OR SCIENCES/ DEPT OF BIOLOGY**

**TRIBUNAL DECISION:** COMPETENT EXCELLENT.

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## DIRECTION OF MASTER (MSc) THESIS (2)

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**TITLE: Storage strategies and metabolic demands in *Cerastoderma edule* (Bivalvia, Cardiidae): influence of reproductive condition.**

CANDIDATE: Federico Santorcuato Salterain.

UNIVERSITY: UPV/EHU

FACULTY OR SCIENCES/ DEPT OF ANIMAL BIOLOGY

YEAR: 1996 (JULY)

TRIBUNAL DECISION: COMPETENT EXCELLENT.

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**TITLE: Digestive physiology of *Arion ater* (L.): responses to synthetic diets with variable starch proportions.**

CANDIDATE: Iker Goiarrola Ugalde

UNIVERSITY: UPV/EHU

FACULTY OR SCIENCES/ DEPT OF ANIMAL BIOLOGY

YEAR: 1997 (JULY)

TRIBUNAL DECISION: COMPETENT EXCELLENT

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**TITLE: Life Cycle of the slug *Arion ater* (L.): modelling live weight and organic weight evolution throughout seasons.**

CANDIDATE: Olatz Alzua Galparsoro.

UNIVERSITY: UPV/EHU

FACULTY OR SCIENCES/ DEPT OF ANIMAL BIOLOGY

YEAR: 1997 (JULY)

TRIBUNAL DECISION: COMPETENT EXCELLENT.

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**TITLE: Time course of body partitioning of assimilated carbon in the cockle *Cerastoderma edule* in conditions of gonadal development.**

CANDIDATE: M<sup>a</sup> del Socorro Mendez Vallinas.

UNIVERSITY: University of Wales (Bangor)

FACULTY: School of Ocean Sciences

PROGRAMME: MSc Shellfish, Fisheries, Biology and Culture.

YEAR: 1997.

TRIBUNAL DECISION: COMPETENT

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**TITLE: Balance and short-term distribution of ingestion in *Cerastoderma edule* L. (Bivalvia:Cardiidae) fed with <sup>14</sup>C-phytoplankton: a comparison between reproductive and non-reproductive stages.**

CANDIDATE: Sandra Bonilla Romo

UNIVERSITY: UPV/EHU

FACULTY OR SCIENCES/ DEPT OF ANIMAL BIOLOGY

YEAR: 1998 (JULY)

TRIBUNAL DECISION: COMPETENT EXCELLENT.

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**TITLE: Physiological basis of growth in two populations of common slug *Arion ater*: Influence of quality and proportion of food carbohydrates in females.**

CANDIDATE: Hugo Alejandro Nuñez García

UNIVERSITY: UPV/EHU

FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: 1999 (October)

TRIBUNAL DECISION: COMPETENT

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### DIRECTION OF MASTER (MSc) THESIS (3)

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**TITLE: Pay for Environmental Services as a tool to promote conservation of natural resources in the Basque Country.**

CANDIDATE: Oreina Orrantia Albizu

UNIVERSITY: Universidad de Costa Rica. San José      FACULTY of BIOLOGY & CIMAR  
(Marine Environmental Research Centre)

PROGRAMME: Sistema de Estudios de Postgrado. (SEP) Maestrías Académicas. Master Internacional

GIAC: Gestión Integral de Áreas Costeras Tropicales.

YEAR: 2004 (July).

TRIBUNAL DECISION: COMPETENT EXCELLENT

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**TITLE: Energy balance in newly hatched *Helix aspersa* fed different types of compound feed.**

CANDIDATE: Iker Rodriguez Zaldúa

UNIVERSITY: UPV/EHU      FACULTY OF SCIENCES/ DEPT OF GENETICS, PHYSICAL  
ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: May 2005

TRIBUNAL DECISION: COMPETENT

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**TITLE: A preliminary essay on the influence of Mesurol (Bayer) on hatching success of two soil invertebrates: *Helix aspersa* (target) and *Eisenia foetida* (non-target).**

CANDIDATE: Carlos Brea San Nicolas

UNIVERSITY: UPV/EHU      FACULTY OF SCIENCES & TECHNOLOGY

PROGRAMME: Master Studies in Contamination & Environmental Toxicology (Quality Mention by the Ministry of Education & Sciences of Spain MEC (2005-2012))

YEAR: 2009 (September)

TRIBUNAL DECISION: COMPETENT EXCELLENT

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**TITLE: Individual growth of *Eisenia andrei* Bouché (1972) in mesocosm at low densities: use of elastomer tagging and image analysis.**

CANDIDATE: Esther Iparraguirre Bolaños

UNIVERSITY: UPV/EHU      FACULTY OF SCIENCES & TECHNOLOGY

PROGRAMME: Master Studies in Biodiversity and Function and Management of Ecosystems (Quality Mention by the Ministry of Education & Sciences of Spain MEC (2005-2012))

YEAR: 2012 (September)

TRIBUNAL DECISION: COMPETENT EXCELLENT

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**TITLE: Distribution, growth and recruitment of *Actinia equina* (Cnidaria, Anthozoa) in a population of the Cantabrian Sea**

CANDIDATE: Marta Barrenetxea Aretxabala

UNIVERSITY: UPV/EHU      FACULTY OF SCIENCES & TECHNOLOGY

PROGRAMME: Master Studies in Biodiversity and Function and Management of Ecosystems (Quality Mention by the Ministry of Education & Sciences of Spain MEC (2005-2015))

YEAR: 2015 (September)

TRIBUNAL DECISION: COMPETENT

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## DIRECTION OF BSc RESEARCH PROJECTS

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**TITLE: Design of compound artificial food to promote growth in snails *Helix aspersa* (muller) to be use in heliculture.**

Candidate: Iker Rodriguez Zaldúa

UNIVERSITY: UPV/EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: May 2002.

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**TITLE: Arion ater (L.) barearen gorputz-atalen hazkundera bizi zikloan zehar; Materia organikoa eta osagai biokimikoen esleipen-dinamikaren modelazioa.**

Candidate: Ainhize Butron Mota

UNIVERSITY: UPV/EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: May 2002.

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**TITLE: Digestive performance of *Arion ater*(L.):Influence of food starch on absorption of other carbohydrates.**

Candidate: Itxaso Buesa Sobera

UNIVERSITY: UPV/EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: May 2003

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**TITLE: Arion ater (L.) barearen bizi-zikloan zeharreko pisu bizien, pisu lehorren eta materia organikoen aldaketen modelazioa.**

Candidate: Udane Arambalza Elorza

UNIVERSITY: UPV/EHU EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: May 2003

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**TITLE: Seasonal variations in biochemical composition of *Helix aspersa* (Müller)**

Candidate: Lander Baliño Zuazo

UNIVERSITY: UPV/EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: May 2005

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**TITLE: Atxuriko (Mungia) Arion ater (L.) barearen populazio baten bizi-zikloan zeharreko hazkunderaren modelazioa**

Candidate: Laida Mendiguren Ugarte

UNIVERSITY: UPV/EHU EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: May 2007

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## DIRECTION OF BSc RESEARCH PROJECTS (2)

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**TITLE: Allometry of Scope for Growth, Digestive Capacity and Transit Time in wild snails of *Helix aspersa* fed lettuce and manufacture foodstuffs.**

Candidate: Alba Jimeno Romero

UNIVERSITY: UPV/EHU EHU FACULTY OR SCIENCES/ DEPT OF GENETICS,  
PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: May 2007

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**TITLE: Survival and growth of newly hatched *Helix aspersa* (Müller) in the laboratory: Influence of diet.**

CANDIDATE: Carlos Brea San Nicolas

UNIVERSITY: UPV/EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL  
ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: May 2008

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**TITLE: Growth and metabolism in newly hatched *Helix aspersa* (Müller).**

Candidate: Aketza Fernandez Zubizarreta

UNIVERSITY: UPV/EHU FACULTY OR SCIENCES/ DEPT OF GENETICS, PHYSICAL  
ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: October 2008

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**TITLE: Respiratory metabolism in *Arion ater* (rufus). A comparison of metabolic expenditure of reproductive, digestive, storage and muscular tissues..**

CANDIDATE: Cristina Bizarro Villán.

UNIVERSITY: UPV/ EHU FACULTY OR SCIENCES/ DEPT OF GENETICS,  
PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY.

YEAR: MAY 2010

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**TITLE: An analysis of two methods of maintenance of *Eisenia foetida* for SFG experiments.**

CANDIDATE: Arkaitz Mucientes Ruiz.

UNIVERSITY: UPV/ EHU FACULTY OR SCIENCES/ DEPT OF GENETICS,  
PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: September 2011

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**TITLE: Studying life cycle in several species of land gastropoda: image analysis as a tool.**

CANDIDATE: Adrian Calvo Albizu.

UNIVERSITY: UPV/ EHU FACULTY OR SCIENCES/ DEPT OF GENETICS,  
PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: September 2013

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**TITLE: Metabolic and digestive parameters of the subtidal *Actinia equina* (Cantabrian Sea, Spain)**

CANDIDATE: Samuel Aguirre Ferreira

UNIVERSITY: UPV/ EHU FACULTY OR SCIENCES/ DEPT OF GENETICS,  
PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY

YEAR: 2018

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### DIRECTION OF BSc RESEARCH PROJECTS (3)

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**TITLE:** Eclosion efficiency of *Eisenia andrei* cocoons on litter from *Quercus robur* and *Q. ilex* with variable decaying periods.

**CANDIDATE:** Ander Villanueva

**UNIVERSITY:** UPV/ EHU

**FACULTY OR SCIENCES/ DEPT OF GENETICS,**

**PHYSICAL ANTHROPOLOGY & ANIMAL PHYSIOLOGY**

**YEAR:** (in course)

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### RESEARCH SKILLS: EQUIPMENT

KEY: R= responsible, UA = Current user.

EQUIPMENT	DATE:	KEY
SPECTROPHOTOMETRY	1981- NOW	UA
DENSITOMETRY	1983-1985	R
MICROBALANZES	1986- NOW	R
LIQUID SCINTILLATION COUNTER	1986- 2005	UA
GRANULOMETRY, COULTER & MULTISIZER	1987- NOW	R
BIOLOGICAL OXIDIZER	1995- 2005	R
POLAROGRAPHIC DETERMINATIONS	1981-NOW	R
MANOMETRIC DETERMINATIONS	1977-NOW	R
IMAGE ANALYSIS	2007-NOW	R

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## OTHER MERITS

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### **1. MANAGEMENT**

- 1.1. Elected member of the Faculty of Sciences Council (from 2004 Faculty of Sciences & Technology) in the University of the Basque Country from 1989 – 2012.
- 1.2. Faculty Committees. Elected Representative of the Section of Biology in the following Committees
  - Studies Planning: 1991-1994
  - Economy: 1995- 1998
  - Research & Teaching Staff: 1995-2001
  - Equipment of teaching laboratories: 1999-2002
  - Selection of new staff: 1989- up till now.
- 1.3. Department Committees
  - Selection of Substitutes: 2002-up till now.
  - Committee to Elaborate the Ordinances of the Dept. of Animal Biology & Genetics (1988-89) and 1997-98 to reform it to adjust it to the new legal directives.

### **2. GRANTS, AWARDS & HONORS**

- Special Honour Mention for doctorates in Biology. 1985-86
- Grants for the improvement of research 1985 and 1986.
- Scholarship for Research (Post-doctoral) abroad. General Direction of Scientific Policy. Ministry of Education (SPAIN) 1986.
- Prize Silver Q awarded by the Ministry of Education, Culture and Sports. Committee of University Coordination: Actions of improving Quality in Universities (II Plan). Project: “Development of the position of Career Coordinator. Personal participation: Development and performance as laboratory Practice Coordinator of the 3<sup>rd</sup> year of Biology during the academic years: 2001-2002, 2002-2003 y 2003-2004.
- Visiting Professor at the University of Costa Rica 2007. School of Biological Sciences and CIMAR (Marine Research Centre). Mobility Grants awarded by the University of the Basque Country and the University of Costa Rica.
- Sabbatical License 2012. Visiting Professor at the University of Sydney. School of Biological Sciences. Sydney Institute for Marine Sciences. Centre for Research on Ecological Impacts on Coastal Cities. Mobility Grant awarded by the University of the Basque Country.

### **3. Master, Doctoral and Specialisation Programmes Participation**

**COURSE TITLE: Adaptation processes of physiological energetics of marine invertebrates**

Place: Faculty of Sciences UPV/EHU

Characteristics: Doctorate in Biology.

Years: **1988, 1990 and 1992**

**COURSE TITLE: Methodological aspects of growth determination in bivalve molluscs**

Place: Faculty of Sciences UPV/EHU

Characteristics: Doctorate in Biology.

Years: **1989, 1991 and 1993**

### **3. Master, Doctoral and Specialisation Programmes Participation (cont.)**

**COURSE TITLE: Allocation and transfer of energy resources: adaptation strategies.**

Place: Faculty of Sciences UPV/EHU

Characteristics: Doctorate in Biology.

Years: **1994, 1996 and 1998**

**COURSE TITLE: Adaption strategies on energy utilization in aquatic organisms: a comparison among different environments.**

Place: Faculty of Sciences UPV/EHU

Characteristics: “Doctorate in Environmental Biology and Quality of life” Quality mention by the Ministry of Education.

Years: **2000 and 2001.**

**COURSE TITLE: Nutrient utilization by marine invertebrates: applied use in cultivating organisms.**

Place: Faculty of Sciences UPV/EHU

Characteristics: “Doctorate in Environmental Biology and Quality of life”. Quality mention by the Ministry of Education.

Years: **2003 and 2004.**

**COURSE TITLE: Environmental Impact of Aquaculture**

Place: Universidad de Costa Rica. CIMAR: Centro de Investigaciones marinas.

Characteristics: Master Course GIACT: Integrated Management of Coastal Areas

Years: **2007.**

**COURSE TITLE: Physiological Energetics of Marine Organisms**

Place: Faculty of Sciences & Technology of UPV/EHU

Characteristics: Master Course EUROPEAN MASTER IN MARINE ENVIRONMENT AND RESOURCES

Years: **2007, 2008, 2009, 2010, and 2011.**

**COURSE TITLE: Morphometry and Image analysis as a tool in life cycle studies in terrestrial invertebrates.**

Place: Official College of Biologists - COBE (Bilbao, Spain)

Characteristics: Specialisation Course in “Morphometry, from lineal distance to spatial 2D and 3D models”.

Year: **2011.**

**COURSE TITLE: Temperature, biodiversity and climate change in animals: A physiological approach.**

Place: Faculty of Sciences & Technology of UPV/EHU

Characteristics: Master Studies in Biodiversity and Function and Management of Ecosystems

Years: **2015, 2016, 2017, 2018.**

### **4. Master participation as director of MSc. And Ph. D students and as member of Judging Commissions**

- Master and Ph.D. Studies in Contamination & Environmental Toxicology (Quality Mention by the Ministry of Education & Sciences of Spain MEC. 2005-now.

- Master and Ph.D. Studies in Biodiversity and Function and Management of Ecosystems (Quality Mention by the Ministry of Education & Sciences of Spain MEC: Ref. MCD 2007-00038). 2005-now.

## **5. Specialisation Courses received**

**COURSE: V Practical Course in Marine Biology. Monographic course on biometry of units of population**

Organizer: Oceanographic Society of Guipuzcoa.

Date: from 31<sup>st</sup> March to 2<sup>nd</sup> de April **1977. (20 hours)**

Professor: Dr. Manuel Gomez-Larrañeta, Director of Oceanographic Laboratory at Vigo, National Institute of Fisheries Research.(CSIC)

**COURSE: VI Practical Course in Marine Biology. Monographic course on marine zooplankton.**

Organizer: Oceanographic Society of Guipuzcoa.

Date: 21st to 23rd de October de **1977. (20 hours)**

Professor: Dr. Francisco Vives, Research Professor at the National Institute of Fisheries Research. (CSIC)

**COURSE: Master Course in Pedagogy (CAP)**

Place: ICE.

Date: **1979-80**

**COURSE: Course on SPSS (Statistical Package for Social Sciences)**

Place: UPV/EHU.

Date: **1980**

**COURSE: Seminary on Ionising Radiations.**

Organizer: Inter-campus Committee of Health and Security.

Place: Faculty of Sciences & Technology of UPV/EHU

Date: 18<sup>th</sup> September **2001 (5 hours).**

**COURSE: EDENDIFU (DNL); Enseigner à l'Université une DNL en français. Advanced Course of linguistics applied to University teaching in French language.**

Organizer: Plurilingual Programme of the UPV/EHU

Place: Faculty of Economical Sciences (Sarriko, Bilbao)

Date: 28th, 29th and 30th September **2009 (15 hours).**

**COURSE ON CREATION AND MANAGEMENT OF ENTERPRISES 2008-2009:  
MANAGEMENT OF A PROJECT OF CREATING AN ENTERPRISE.**

Organizer: UPV/ EHU ZITEC MINTEGIAK

**Module 7 (8 hours)**

**TITLE: Financing a new enterprise. Financial sources specific for the creation of enterprises based in technology.**

Place: UPV/EHU Zitec Mintegua.

DATE: 30<sup>th</sup> March and 1<sup>st</sup> April

**COURSE ON CREATION AND MANAGEMENT OF ENTERPRISES 2009-2010:  
MANAGEMENT OF A PROJECT OF CREATING AN ENTERPRISE.**

Organization: UPV/ EHU ZITEC MINTEGIAK

Place: UPV/EHU Zitec Mintegua.

**Module 1 (8h)**

**TITLE: Evaluating and defining the opportunity of business. Analysis of market viability**

Date: 2nd and 4th November **2009.**

**Module 2 (8h)**

**TITLE: Analysis of financial viability of an enterprise.**

Date: 9th and 11th November **2009.**

**Module 4 (8h)****TITLE: Strategic Planning.**Date: 11th and 13th January **2010**.**SEMINAR OF TECHNICAL/ACADEMICAL ENGLISH (2014)****SUBJECT: EXPERIMENTAL AND HEALTH SCIENCES.****ORGANIZER:** NISPIK, Language Laboratory (UPV/EHU)

20 hours

Dates: May 27<sup>th</sup> to June 26<sup>th</sup> 2014.**AKADEME. LEADERSHIP PROGRAMME FOR WOMEN ACADEMICS****ORGANIZER: Equality Division. Advisory Service UPV/EHU**

60 hours (4 ECTS)

Dates: October 17<sup>th</sup> 2018 to February 13<sup>th</sup> 2019.**6. LANGUAGE CERTIFICATIONS****1. English:**

- High School Diploma with Honours (NHS). Sodus, N.Y. 1973.
- Certificate in Advanced English (CAE). Language School of Bilbao (Old Programme) 1975. (C1)
- Certificate of Proficiency in English. Michigan (ECPE) 1975 (C2)

**2. French:**

- Diplôme d'Études en Langue Française DELF (CIEP) Certificate of Advanced courses (Grades: A+). (Old Programme, 1975). B2.

**3. University Lecturer in foreign languages.**

- A member of the staff ascribed to the Multilingual Plan: Official Certification to teach in English at University level.

**From: 2006****Lecturer in English: Principles of Animal Physiology since 2013****BSc in Biology, BSc in Biochemistry and Molecular Biology and BSc in Biotechnology.**

- A member of the staff ascribed to the Multilingual Plan: Official Certification to teach in French at University level (EDENDIFU).

**From: 2009**

## **7. RESEARCH SUPERVISOR**

### **1. PRACTISES IN ENTERPRISES**

2004 PABLO ANTONIO CAGIGAS LAVIN  
2007 TERESA GUTIERREZ ALONSO  
2007 MANUEL ANTONIO MACIA SAN MARTIN  
2007 KOLDO URIBE ETXEVARRIA  
2008 YOANA SALAZAR NUÑEZ  
2009 AKETZA ZUBIZARRETA FERNANDEZ

### **2. LABORATORY INTERNII**

1990-1993 ANUNCIACION VILLANUEVA  
1991-1992 ROCIO MAYORAL ORTIZ  
1991-1994 JOSE MARIA MARTINEZ GONZALEZ  
1993-1996 FEDERICO SANTORCUATO SALTERAIN  
1995-1998 SANDRA BONILLA ROMO

### **2. LABORATORY INTERNII (cont.)**

2001-2003 IKER RODRIGUEZ ZALDUA  
2005-2008 CARLOS BREA SAN NICOLAS  
2006-2008 LAIDA MENDIGUREN UGARTE  
2006-2009 AKETZA ZUBIZARRETA FERNANDEZ  
2008-2009 PABLO SALMON SARO  
2008-2009 ESTHER IPARRAGUIRRE BOLAÑOS  
2008-2009 XANDRA PEREIRO DIEZ  
2009-2011 ARKAITZ MUCIENTES RUIZ  
2009-2011 CARLOS NIETO HORNES  
2012-2013 JESUS GARCIA VALLES  
2012-2014 ADRIAN CALVO ALBIZU  
2015-2017 ANDER VILLANUEVA ALONSO  
2015-2016 IRENE GUERRA  
2015-2018 SAMUEL AGUIRRE FERREIRA

### **3. RESEARCH COLABORATOR GRANTS (BASQUE GOVERNMENT)**

1992-1993 MIKEL VALLE  
1995-1996 SOCORRO MENDEZ VALLINAS  
2001-2002 AINHIZE BUTRON MOTA  
2002-2003 UDANE ARAMBALZA ELORZA  
2006-2007 ALBA JIMENO ROMERO  
2007-2008 CARLOS BREA SAN NICOLAS  
2009-2010 CRISTINA BIZARRO VILLAN

### **4. TECHNOLOGICAL SCHOLARSHIPS (BASQUE GOVERNMENT)**

1996-1998 AITOR VELASCO PEREZ  
2009-2010 LAIDA MENDIGUREN UGARTE  
2010-2011 AXIER SUCUNZA ALKORTA

## **5. MASTER SCHOLARSHIPS**

1996-1997 SOCORRO MENDEZ VALLINAS (UPV/EHU)

2002-2004 OREINA ORRANTIA ALBIZU (EUROPEAN UNION)

2008-2009 CARLOS BREA SAN NICOLAS (BASQUE GOVERNMENT)

2011-2012 ESTHER IPARRAGUIRRE BOLAÑOS (UPV/EHU)

2014-2015 MARTA BARRENETXEA (UPV/EHU)

## **6. DOCTOR SCHOLARSHIPS**

1996-1999 HUGO ALEJANDRO NUÑEZ GARCIA (AECI)

1996- 2000 SOCORRO MENDEZ VALLINAS (UPV/EHU)

2003-2007 IKER RODRIGUEZ ZALDUA (MEC)

2008-2012 CARLOS BREA SAN NICOLAS (BASQUE GOVERNMENT)

2013-2016 ESTHER IPARRAGUIRRE BOLAÑOS (BASQUE GOVERNMENT)

## **8.OTHERS**

### **1. Conferences**

Organizer of a cycle of conferences on: “**Environmental management, biodiversity and sustainable development in Central America**”. Faculty of Sciences, Leioa. November 2004.

### **2. Professional Memberships**

- Institutional Representative of the UPV/EHU as a member of the Committee of Coordination of the Network ALFA-GIACT (1997-NOW) and promoter of a Memorandum of University Cooperation Europe-Mesoamerica (**CONSORCIO COSTA**).

-Ordinary Member of The Malacological Society of London and the Spanish Society of Malacology.

-Evaluator of the ANEP (National Agency of Evaluation and Prospective) and to INCITE (Projects of Research of Galician Plan of Research, development and Technological Innovation)