



Aitor Larrañaga Espartero

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I graduated in Chemical Engineering at the Faculty of Engineering of Bilbao in Spain (2008) and followed with a Master in Advanced Materials Engineering at the same faculty (2009-2010). Thanks to a **predoctoral grant funded by the University of the Basque Country (UPV/EHU)**, I completed an **international PhD** (2014) under supervision of Prof. J.R. Sarasua entitled "Fabrication and Characterization of Lactide and Caprolactone Based Bioresorbable and Bioactive Polymer Scaffolds for Tissue-Engineering Applications", which got the **highest rating (Cum Laude) and the extraordinary doctorate award by the UPV/EHU**. During this period, I was **awarded with a mobility grant from the UPV/EHU** which allowed me to visit the laboratory of Prof. Gaétan Laroche at the Laval University (Quebec, Canada). After my PhD, I joined the Center for Research in Medical Devices (CÚRAM) in Ireland under supervision of Prof. A. Pandit as a postdoctoral researcher (2015-2017) via a **postdoctoral grant funded by the Basque Government**. In 2016, I also received a **Short-term Scientific mission funded by the COST action iPROMEDAI (EU)**, which gave me the opportunity to do a short-term stage in the laboratory of Prof. Cornelia Palivan at the University of Basel (Basel, Switzerland). All these grants and fellowships helped me to develop my professional profile and to broaden my network of connections.

Professionally, I have actively contributed to the scientific community since 2013, with **22 research papers (16 of them from the first quartile), 4 review papers, 2 book chapters, 2 patents and 21 contributions to international conferences (17 as oral presentations)**. From 2017, I have published among others, a **review paper in Progress in Materials Science (Ranked 7/285 in Materials Science)**, a **research paper in Acta Biomaterialia (Ranked 7/80 in Biomedical Engineering)**, **two book chapters and co-authored another 4 papers in journals in the top 25% (Q1) in their field**, which highlights the increasing impact and quality of my work. The interest on my work in the scientific community has gradually increased along this period, reaching a total of **387 citations** and an **h-index of 13** (source: Google Scholar). I have also participated as an **invited reviewer in several high-impact factor journals** and as an **expert reviewer for a Marie Curie COFUND fellowship**, which demonstrates my growing recognition in the fields of Biomaterials and Biomedical Engineering.

My enthusiasm and passion for science also extends outside the laboratory by engaging in various science outreach activities, including press releases, spreading science through social media (the review paper in Progress in Materials Science was among the ones that had the **most social media attention**, according to PlumX Metrics: <https://www.journals.elsevier.com/progress-in-materials-science/top-articles>), taking part in activities that promote the link between science and society (e.g., I won the **first prize in the Scientific Picture competition** organized by the UPV/EHU in 2014) and participating as invited speaker in several activities targeting the general public and undergraduate students.

As a lecturer, in 2017 I was **invited in the Industrial Engineering Master** at the UPV/EHU (Subject: Biopolymers and Nanocomposites/ Duration: 7 hours) and currently I have an associate lecturer position at this same university, where I teach "Fundamentals of Materials Science and Engineering"



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Publication years: 2011-2019 Citation years: 2013-2019

Citations: 387 (Google Scholar) Citations/year: 64.5 Citations/paper: 14.9

h-index: 13

i10-index: 17



Aitor Larrañaga Espartero

Surname(s): **Larrañaga Espartero**
 Name: **Aitor**
 DNI: **44685665T**
 ResearcherID: **H-3724-2018**
 Date of birth: **24/02/1984**
 Gender: **Male**
 Land line phone: **(0034) 945000652**
 Email: **aitor.larranagae@ehu.eus**

Current professional situation

Employing entity: Universidad del País Vasco **Type of entity:** University
Department: Ingeniería Minera-Metalúrgica y Ciencia de los Materiales, Escuela de Ingeniería de Bilbao
Professional category: Profesor Adjunto
Start date: 12/02/2019
Type of contract: Temporary employment contract **Dedication regime:** Full time
Primary (UNESCO code): 330000 - Technological Science.
Secondary (UNESCO code): 331210 - Plastics
Identify key words: Biopolymers; Biomaterials; Biomedicine

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad del País Vasco	Profesor Laboral Interino	05/09/2018
2	Universidad del País Vasco	Investigador Postdoctoral	07/07/2014
3	Universidad del País Vasco	Investigador predoctoral	01/03/2010

- 1** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesor Laboral Interino
Start-End date: 05/09/2018 - 11/02/2019 **Duration:** 5 months - 7 days
- 2** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Investigador Postdoctoral
Start-End date: 07/07/2014 - 04/09/2018 **Duration:** 4 years - 1 month - 26 days
- 3** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Investigador predoctoral
Start-End date: 01/03/2010 - 28/02/2014 **Duration:** 4 years



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Ingeniero Químico Especialidad Ingeniería Química Fundamental

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of qualification: 09/04/2008

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Ingeniería de Materiales Avanzados

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of degree: 11/06/2014

Other postgraduate university studies

Postgraduate qualification: Master Universitario en Ingeniería de Materiales Avanzados

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Faculty, institute or centre: Escuela Técnica Superior de Ingeniería de Bilbao

Date of qualification: 28/09/2010

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Ética en la investigación universitaria
Awarding entity: UPV/EHU
End date: 16/11/2017

Type of entity: University Centres and Structures and Associated Bodies
Duration in hours: 36 hours
- 2 Training title:** Fundamentos y aplicaciones de la espectroscopía Raman
Awarding entity: UPV/EHU
End date: 20/10/2017

Type of entity: University
Duration in hours: 20 hours
- 3 Training title:** Writing great papers in international journals-An introduction for researchers
Awarding entity: Wiley
End date: 28/10/2013

Type of entity: Revista
Duration in hours: 3 hours
- 4 Training title:** SciFinder Training
Awarding entity: SciFinder
End date: 13/12/2011

Type of entity: Business
Duration in hours: 2 hours



- 5 Training title:** Difracción de Rayos X en muestra policristalina-Principios y aplicaciones
Awarding entity: Universidad del País Vasco **Type of entity:** University
End date: 23/05/2011 **Duration in hours:** 20 hours
- 6 Training title:** Análisis térmico: Presentación de la nueva técnica Flash DSC y DMA-teoría y aplicaciones
Awarding entity: Mettler Toledo **Type of entity:** Business
End date: 29/03/2011 **Duration in hours:** 8 hours
- 7 Training title:** An Introduction to Patents
Awarding entity: Universidad del País Vasco **Type of entity:** University
End date: 20/12/2010 **Duration in hours:** 2 hours
- 8 Training title:** Ensayos no destructivos
Awarding entity: ASOCIACION ESPAÑOLA DE ENSAYOS NO DESTRUCTIVOS
End date: 28/05/2010 **Duration in hours:** 12 hours
- 9 Training title:** Seguridad en laboratorios
Awarding entity: Universidad del País Vasco **Type of entity:** University
End date: 10/05/2010 **Duration in hours:** 4 hours

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 Title of course/seminar:** Fundamentos didácticos para impartir clase en la Universidad
Organising entity: Servicio de asesoramiento educativo
Duration in hours: 25 hours
Start-End date: 08/01/2019 - 17/01/2019
- 2 Title of course/seminar:** Recepción y orientación del profesorado novel
Organising entity: Servicio de asesoramiento educativo
Duration in hours: 4 hours
Start-End date: 27/11/2018 - 12/12/2018

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	B1	B1	B1	B1	B1
Basque	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1



Teaching experience

General teaching experience

- 1 Name of the course:** Fundamentos de Ciencia de Materiales
University degree: Grado en Ingeniería en Tecnología Industrial
Start date: 05/09/2018 **End date:** 19/12/2018
End date: 19/12/2018
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Escuela de Ingeniería de Bilbao
- 2 Name of the course:** Polímeros, Bio- y nanomateriales
University degree: Master Universitario en Ingeniería Industrial
Start date: 11/12/2017 **End date:** 18/12/2017
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería de Bilbao

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** Grupo de investigación en Ciencia e Ingeniería de Biomateriales Poliméricos. ZIBIO group
Entity where project took place: Gobierno Vasco/Eusko Jaurlaritz. Consejería de Educación, Política Lingüística y Cultura
Name principal investigator (PI, Co-PI....): Jose Ramon Sarasua
Start-End date: 01/01/2016 - 31/12/2021
Total amount: 488.000 €
- 2 Name of the project:** Grupo de investigación en ciencia e ingeniería de biomateriales poliméricos
Entity where project took place: Gobierno Vasco/Eusko Jaurlaritz. Consejería de Educación, Política Lingüística y Cultura
Name principal investigator (PI, Co-PI....): Jose Ramon Sarasua
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 71.300 €
- 3 Name of the project:** Diseño, procesado, propiedades y aplicaciones de polímeros y biopolímeros-nuevos materiales poliméricos y procesos catalíticos
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jose Ignacio Eguiazabal
Start-End date: 01/11/2011 - 31/12/2014
Total amount: 159.305,4 €



4 Name of the project: Funcionalización de la superficie de un copolímero biodegradable con una proteína modelo biológicamente activa para aplicaciones cardiovasculares
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jose Ramon Sarasua
Start-End date: 01/01/2013 - 31/12/2013
Total amount: 3.199 €

5 Name of the project: Microcompounder para preparación de mezclas y compuestos poliméricos nanoestructurados
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jose Ramon Sarasua
Start-End date: 01/01/2010 - 31/12/2010
Total amount: 51.000 €

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: Desarrollo de aplicaciones médicas para un biopolímero
Degree of contribution: Researcher
Funding entity or bodies: Neol Biosolutions **Type of entity:** Business
City funding entity: Andalusia, Spain
Start date: 01/10/2013 **Duration:** 1 year
Total amount: 48.000 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** Biodegradable Bioglass-Polymer Composite having improved thermal stability
Inventors/authors/obtainers: Jose Ramon Sarasua Oiz; Aitor Larrañaga Espartero; Susana Petisco Ferrero
Entity holder of rights: Universidad del País Vasco
Nº of application: 201231502
Country of inscription: Spain
Date of register: 28/09/2012
Conferral date: 02/02/2015
- 2 Title registered industrial property:** Novel Random Terpolymers Based on D-Lactide, L-Lactide and E-Caprolactone
Inventors/authors/obtainers: Jorge Fernández Hernández; Aitor Larrañaga Espartero; Jose Ramon Sarasua Oiz
Entity holder of rights: Universidad del País Vasco
Nº of application: 201330302
Country of inscription: Spain



Date of register: 04/03/2013

Conferral date: 08/10/2014

Scientific and technological activities

Scientific production

H index: 13

Date of application: 11/07/2019

Publications, scientific and technical documents

- 1** Aitor Larrañaga; Isma Isa; Vaibhav Patil; Sagana Thamboo; Mihai Lomora; Marc Fernández-Yague; Jose Ramon Sarasua; Cornelia Palivan; Abhay Pandit. Antioxidant Functionalized Polymer Capsules to Prevent Oxidative Stress. *Acta Biomaterialia*. 67, pp. 21 - 31. 2018.
DOI: 10.1016/j.actbio.2017.12.014
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** ENGINEERING, BIOMEDICAL
Impact index in year of publication: 6.638 **Journal in the top 25%:** Yes
Position of publication: 7 **No. of journals in the cat.:** 80
Source of citations: Google Scholar **Citations:** 5
- 2** Christos Tapeinos; Aitor Larrañaga; Jose-Ramon Sarasua; Abhay Pandit. Functionalised collagen spheres reduce H2O2 mediated apoptosis by scavenging overexpressed ROS. *Nanomedicine: Nanotechnology, Biology, and Medicine*. 14, pp. 2397 - 2405. 2018.
DOI: 10.1016/j.nano.2017.03.022
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 5.570 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 136
Source of citations: Google Scholar **Citations:** 4
- 3** Jone Ugartemendia; Aitor Larrañaga; E Aldalur; Hegoi Amestoy; Agustin Etxeberria; Jose Ramon Sarasua. Tougher Biodegradable Polylactide System for Bone Fracture Fixations: Miscibility Study, Phase Morphology and Mechanical Properties. *European Polymer Journal*. 98, pp. 411 - 419. 2018.
DOI: 10.1016/j.eurpolymj.2017.11.040
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** POLYMER SCIENCE
Impact index in year of publication: 3.621 **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 87
Source of citations: Google Scholar **Citations:** 6



- 4** N. Sadaba; R. Martini; F. Barthelat; I. Martinez de Arenaza; A. Larrañaga; J.R. Sarasua; E. Zuza. Understanding the Toughness Mechanism Prompted by Submicron Rigid Particles in Polylactide/Barium Sulphate Composites. *Polymer Testing*. 69, pp. 340 - 349. 2018.
DOI: 10.1016/j.polymertesting.2018.05.041
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 2.943
Position of publication: 5
Source of citations: Google Scholar
Format: Journal
Category: MATERIALS SCIENCE, CHARACTERIZATION AND TESTING
Journal in the top 25%: Yes
No. of journals in the cat.: 33
Citations: 1
- 5** Niranjana Kotla; Bhargavi Chandrasekar; Peadar Rooney; Sivaraman Gandhi; Aitor Larrañaga; Vijaya Krishna; Abhay Pandit; Yuri Rochev. Biomimetic lipid-based nanosystems for enhanced dermal delivery of drugs and bioactive agents. *ACS Biomaterials Science & Engineering*. 3, pp. 1262 - 1272. 2017.
DOI: 10.1021/acsbomaterials.6b00681
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 4.432
Position of publication: 9
Source of citations: Google Scholar
Format: Journal
Category: MATERIALS SCIENCE, BIOMATERIALS
Journal in the top 25%: No
No. of journals in the cat.: 33
Citations: 11
- 6** Aitor Larrañaga; Mihai Lomora; Jose-Ramon Sarasua; Cornelia Palivan; Abhay Pandit. Polymer Capsules as Micro- /Nanoreactors for Therapeutic Applications: Current Strategies to Control Membrane Permeability. *Progress in Materials Science*. 90, pp. 325 - 357. 2017.
DOI: 10.1016/j.pmatsci.2017.08.002
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 23.750
Position of publication: 7
Source of citations: Google Scholar
Format: Journal
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 285
Citations: 34
- 7** Joelle Bizeau; Christos Tapeinos; Claudio Marella; Aitor Larrañaga; Abhay Pandit. Synthesis and Characterization of Hyaluronic Acid-Coated Manganese Dioxide Microparticles that Act as ROS Scavengers. *Colloids and Surfaces B: Biointerfaces*. 159, pp. 30 - 38. 2017.
DOI: 10.1016/j.colsurfb.2017.07.081
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 3.997
Position of publication: 13
Source of citations: Google Scholar
Format: Journal
Category: BIOPHYSICS
Journal in the top 25%: Yes
No. of journals in the cat.: 72
Citations: 4



- 8** Aitor Larrañaga; Florent Pompanon; Nicolás Gruffat; Teodoro Palomares; Ana Isabel Alonso-Varona; Aitor Larrañaga Varga; Marc Antoni Fernández-Yague; Manus Biggs; Jose Ramon Sarasua. Effects of Isothermal Crystallization on the Mechanical Properties of a Elastomeric Medium Chain Length Polyhydroxyalkanoate. *European Polymer Journal*. 85, pp. 401 - 410. 2016.
DOI: 10.1016/j.eurpolymj.2016.10.050
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** Science Edition - POLYMER SCIENCE
Impact index in year of publication: 3.531 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 86
Source of citations: Google Scholar **Citations:** 2
- 9** Jorge Fernández; Aitor Larrañaga; Agustin Etxeberria; Jose Ramon Sarasua. Ethylene brassylate-co- δ -hexalactone Biobased Polymers for Application in the Medical Field: Synthesis, Characterization and Cell Culture Studies. *RSC Advances*. 6, pp. 22121 - 22136. 2016.
DOI: 10.1039/C6RA01065B
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 3.108 **Journal in the top 25%:** No
Position of publication: 59 **No. of journals in the cat.:** 163
Source of citations: Google Scholar **Citations:** 10
- 10** Aitor Larrañaga; Jose Ramon Sarasua. Poly(α -hydroxy Acids)-Based Cell Microcarriers. *Applied Sciences*. 6, pp. 436. 2016.
DOI: 10.3390/app6120436
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 1.679 **Journal in the top 25%:** No
Position of publication: 150 **No. of journals in the cat.:** 275
Source of citations: Google Scholar **Citations:** 3
- 11** Catalina Vallejo-Giraldo; Eugenia Pugliese; Aitor Larrañaga; Marc Fernández-Yague; James Britton; Alexandre Trotier; Ghazal Taddayon; Adriona Kelly; I Rago; Jose Ramon Sarasua; Elisabeth Dowd; Leo Quinlan; Abhay Pandit; Manus Biggs. Polyhydroxyalkanoate/Carbon Nanotube Nanocomposites: Flexible Electrically Conducting Elastomers for Neural Applications. *Nanomedicine*. 11, pp. 2547 - 2563. 2016.
DOI: 10.2217/nnm-2016-0075
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Impact index in year of publication: 4.727 **Journal in the top 25%:** Yes
Position of publication: 21 **No. of journals in the cat.:** 160
Source of citations: Google Scholar **Citations:** 14



- 12** Christina Ryan; KP Fuller; Aitor Larrañaga; Manus Biggs; Yves Bayon; Jose Ramon Sarasua; Abhay Pandit; Dimitrios Zeugolis. An Academic, Clinical and Industrial Update on Electro-Spun, Additive Manufactured and Imprinted Medical Devices. *Expert Review of Medical Devices*. 12, pp. 601 - 612. 2015.
DOI: 10.1586/17434440.2015.1062364
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 1.762 **Journal in the top 25%:** No
Position of publication: 40 **No. of journals in the cat.:** 76
Source of citations: Google Scholar **Citations:** 22
- 13** Aitor Larrañaga; Daniel Ramos; Hegoi Amestoy; Ester Zuza; Jose Ramon Sarasua. Coating of Bioactive Glass Particles with Mussel-Inspired Polydopamine as a Strategy to Improve the Thermal Stability of Poly(L-lactide)/Bioactive Glass Composites. *RSC Advances*. 5, pp. 65618 - 65626. 2015.
DOI: 10.1039/C5RA09495J
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact source: ISI **Journal in the top 25%:** No
Impact index in year of publication: 3.289 **No. of journals in the cat.:** 163
Position of publication: 49 **Citations:** 9
Source of citations: Google Scholar
- 14** Gad Sabbatier; Aitor Larrañaga; AA Guay-Bégin; Jorge Fernández; F Diéval; F Durand; Jose Ramon Sarasua; Gaetan Laroche. Design, Degradation Mechanism and Long-Term Cytotoxicity of Poly(L-lactide) and Poly(Lactide-co-ε-caprolactone) Terpolymer Film and Air-Spun Nanofiber Scaffold. *Macromolecular Bioscience*. 15, pp. 1392 - 1410. 2015.
DOI: 10.1002/mabi.201500130
Type of production: Scientific paper **Format:** Journal
Corresponding author: No **Category:** Science Edition - POLYMER SCIENCE
Impact source: ISI **Journal in the top 25%:** Yes
Impact index in year of publication: 3.680 **No. of journals in the cat.:** 85
Position of publication: 11 **Citations:** 18
Source of citations: Google Scholar
- 15** Aitor Larrañaga; Ana Isabel Alonso-Varona; Teodoro Palomares; Eva Rubio-Azpeitia; Pablo Aldazabal; FJ Martin; Jose Ramon Sarasua. Effect of Bioactive Glass Particles on Osteogenic Differentiation of Adipose-Derived Mesenchymal Stem Cells Seeded on Lactide and Caprolactone Based Scaffolds. *Journal of Biomedical Materials Research, Part A*. 103A, pp. 3815 - 3824. 2015.
DOI: 10.1002/jbm.a.35525
Type of production: Scientific paper **Format:** Journal
Corresponding author: No **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact source: ISI **Journal in the top 25%:** Yes
Impact index in year of publication: 3.263 **No. of journals in the cat.:** 76
Position of publication: 13 **Citations:** 15
Source of citations: Google Scholar

- 16** Marc Fernández-Yague; Aitor Larrañaga; Olga Gladkovskaya; A Stanley; Ghazal Tadayyon; Y Guo; Jose Ramon Sarasua; SA Tofail; Dimitrios Zeugolis; Abhay Pandit; Manus Biggs. Effects of Polydopamine Functionalization on Boron Nitride Nanotube Dispersion and Cytocompatibility. *Bioconjugate Chemistry*. 26, pp. 2025 - 2037. 2015.
DOI: 10.1021/acs.bioconjchem.5b00257
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 4.500 **Journal in the top 25%:** Yes
Position of publication: 31 **No. of journals in the cat.:** 163
Source of citations: Google Scholar **Citations:** 23
- 17** Inger Martínez de Arenaza; Naroa Sadaba; Aitor Larrañaga; Ester Zuza; Jose Ramon Sarasua. High Toughness Biodegradable Radiopaque Composites Base don Polylactide and Barium Sulphate. *European Polymer Journal*. 73, pp. 88 - 93. 2015.
DOI: 10.1016/j.eurpolymj.2015.10.005
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - POLYMER SCIENCE
Impact index in year of publication: 3.485 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 85
Source of citations: Google Scholar **Citations:** 13
- 18** Jorge Fernández; Aitor Larrañaga; Agustín Etxeberria; W Wang; Jose Ramon Sarasua. A New Generation of Poly(lactide/ ϵ -caprolactone) Polymeric Biomaterials for Application in the Medical Field. *Journal of Biomedical Materials Research, Part A*. 102, pp. 3573 - 3584. 2014.
DOI: 10.1002/jbm.a.35036
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 3.369 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 76
Source of citations: Google Scholar **Citations:** 27
- 19** Aitor Larrañaga; E Diamanti; Eva Rubio; Teodoro Palomares; Ana Isabel Alonso-Varona; Pablo Aldazabal; FJ Martin; Jose Ramon Sarasua. A Study of the Mechanical Properties and Cytocompatibility of Lactide and Caprolactone Based Scaffolds Filled with Inorganic Bioactive Particles. *Materials Science and Engineering, Part C*. 42, pp. 451 - 460. 2014.
DOI: 10.1016/j.msec.2014.05.061
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, BIOMATERIALS
Impact index in year of publication: 3.088 **Journal in the top 25%:** No
Position of publication: 17 **No. of journals in the cat.:** 33
Source of citations: Google Scholar **Citations:** 15

- 20** Aitor Larrañaga; Jorge Fernández; Albert Vega; Agustín Etxeberria; C Ronchel; JL Adrio; Jose Ramon Sarasua. Crystallization and its Effect on the Mechanical Properties of a Medium Chain Length Polyhydroxyalkanoate. *Journal of the Mechanical Behavior of Biomedical Materials*. 39, pp. 87 - 94. 2014.
DOI: 10.1016/j.jmbbm.2014.07.020
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 3.417 **Journal in the top 25%:** Yes
Position of publication: 11 **No. of journals in the cat.:** 76
Source of citations: Google Scholar **Citations:** 11
- 21** Aitor Larrañaga; AA Guay-Bégin; Pascale Chevallier; Gad Sabbatier; Jorge Fernández; Gaetan Laroche; Jose Ramon Sarasua. Grafting of a Model Protein on Lactide and Caprolactone Based Biodegradable Films for Biomedical Applications. *Biomatter*. 4, pp. 1 - 11. 2014.
DOI: 10.4161/biom.27979
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Source of citations: Google Scholar **Citations:** 4
- 22** Aitor Larrañaga; Pablo Aldazabal; FJ Martin; Jose Ramon Sarasua. Hydrolytic Degradation and Bioactivity of Lactide and Caprolactone Based Sponge-Like Scaffolds Loaded with Bioactive Glass Particles. *Polymer Degradation and Stability*. 110, pp. 121 - 128. 2014.
DOI: 10.1016/j.polymdegradstab.2014.08.021
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - POLYMER SCIENCE
Impact index in year of publication: 3.163 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 82
Source of citations: Google Scholar **Citations:** 36
- 23** Jone Ugartemendia; Aitor Larrañaga; Hegoi Amestoy; Jose Ramon Sarasua. Supramolecular Evolution Over an Initial Period of Biodegradation of Lactide and Caprolactone Based Medical (Co)polyesters. *Polymer Degradation and Stability*. 108, pp. 87 - 96. 2014.
DOI: 10.1016/j.polymdegradstab.2014.06.004
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - POLYMER SCIENCE
Impact index in year of publication: 3.163 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 82
Source of citations: Google Scholar **Citations:** 6
- 24** Jorge Fernández; Aitor Larrañaga; Agustin Etxeberria; Jose Ramon Sarasua. Tensile Behavior and Dynamic Mechanical Analysis of Novel poly(lactide/valerolactone) Statistical Copolymers. *Journal of the Mechanical Behavior of Biomedical Materials*. 35, pp. 39 - 50. 2014.
DOI: 10.1016/j.jmbbm.2014.03.013
Type of production: Scientific paper **Format:** Journal



Corresponding author: No

Impact source: ISI

Impact index in year of publication: 3.417

Position of publication: 11

Source of citations: Google Scholar

Category: Science Edition - ENGINEERING, BIOMEDICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 76

Citations: 14

- 25** Aitor Larrañaga; Jose Ramon Sarasua. Effect of Bioactive Glass Particles on the Thermal Degradation Behavior of Medical Polyesters. *Polymer Degradation and Stability*. 98, pp. 751 - 758. 2013.

DOI: 10.1016/j.polymdegradstab.2012.12.015

Type of production: Scientific paper

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 2.633

Position of publication: 23

Source of citations: Google Scholar

Format: Journal

Category: Science Edition - POLYMER SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 82

Citations: 20

- 26** Jorge Fernández; Aitor Larrañaga; Agustin Etxeberria; Jose Ramon Sarasua. Effect of Chain Microstructure and Derived Crystallization Capabilitly on Hydrolytic Degradation of Poly(L-lactide/ ϵ -caprolactone) copolymers. *Polymer Degradation and Stability*. 98, pp. 481 - 489. 2013.

DOI: 10.1016/j.polymdegradstab.2012.12.014

Type of production: Scientific paper

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 2.633

Position of publication: 23

Source of citations: Google Scholar

Format: Journal

Category: Science Edition - POLYMER SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 82

Citations: 45

- 27** Aitor Larrañaga; Susana Petisco; Jose Ramon Sarasua. Improvement of Thermal Stability and Mechanical Properties of Medical Polyesters Composites by Plasma Surface Modification of the Bioactive Glass Particles. *Polymer Degradation and Stability*. 98, pp. 1717 - 1723. 2013.

DOI: 10.1016/j.polymdegradstab.2013.06.003

Type of production: Scientific paper

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 2.633

Position of publication: 23

Source of citations: Google Scholar

Format: Journal

Category: Science Edition - POLYMER SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 82

Citations: 12

- 28** Eider Aldalur; Jose Ramon Sarasua; Aitor Larrañaga; JM Ugartemendia. Mikrotxantiloien fabrikazioa eta horien aplikazioak biomedikuntzan. *EKAIA*. 2019.

DOI: <https://doi.org/10.1387/ekaia.20157>

Type of production: Popular science article

Corresponding author: No

- 29** Aitor Larrañaga; Jone Ugartemendia; Jose Ramon Sarasua. 3-D zelula-euskarri biodegradagarriak: diseinuaren garrantzia etorkizuneko biomedikuntza-aplikazioetan. EKAIA. 25, pp. 7 - 17. 2012.
Type of production: Popular science article **Format:** Journal
Corresponding author: No
- 30** G Gallastegui; Aitor Larrañaga; AA Ramirez; TTH Pham. Biochemical Aspects of Microbial Product Synthesis: a Relook. Microbial Sensing in Fermentation. pp. 1 - 9. Wiley Online Library, 2018.
Type of production: Book chapter
Corresponding author: No
- 31** Aitor Larrañaga; Erlantz Lizundia. Strain induced crystallization. Crystallization in Multiphase Polymer Systems. pp. 471 - 508. Elsevier, 2018. ISBN 9780128094532
Type of production: Book chapter **Format:** Book
Source of citations: Google Scholar **Citations:** 1

Works submitted to national or international conferences

- 1** **Title of the work:** Fabrication of manganese dioxide (MnO₂)-loaded polymer capsules to prevent oxidative stress
Name of the conference: TERMIS EU
City of event: Rhodes, Greece
Date of event: 27/05/2019
Organising entity: TERMIS
E Marin; Aitor Larrañaga; C Tapeinos; G Ciofani; JR Sarasua.
- 2** **Title of the work:** Nanostructured scaffolds based on bioresorbable polymers and graphene oxide to promote neurodifferentiation of dental pulp-derived stem cells
Name of the conference: TERMIS EU
City of event: Rhodes, Greece
Date of event: 27/05/2019
Organising entity: TERMIS
Y Polo; J Luzuriaga; I Irastorza; JM Encinas; JR Pineda; G Ibarretxe; F Unda; Aitor Larrañaga; JR Sarasua.
- 3** **Title of the work:** Fabrication of nanostructured polymer films based on bioresorbable polyester and graphene oxide to promote the neurodifferentiation of stem cells
Name of the conference: 10th International Conference on Nanostructured Polymers and Nanocomposites
Type of event: Conference
City of event: San Sebastian, Spain
Date of event: 03/10/2018
Organising entity: ECNP
A. Larrañaga; I. Irastorza; J. Luzuriaga; N. Arranz; J.M. Encinas; J.R. Pineda; F. Unda; G. Ibarretxe; J.R. Sarasua.
- 4** **Title of the work:** Chitosan-based Dual-drug Delivery Thermo-responsive Hydrogels for Wound Healing Applications
Name of the conference: European Colloid and Interface Society (ECIS)
Type of event: Conference
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Madrid, Community of Madrid, Spain



Date of event: 03/08/2017

End date: 08/08/2017

Aitor Larrañaga; Oroiz Sánchez; Carlos Bello; Ainhoa Lejardi; Jose Ramon Sarasua.

- 5** **Title of the work:** Degradation and Endothelial Cell Compatibility of a Vascular Biomaterial Designed from a Tunable Poly(Lactide-co- ϵ -caprolactone) Terpolymer Nanofiber Scaffold
Name of the conference: 10th World Biomaterials Congress
City of event: Montreal, Canada
Date of event: 17/05/2016
End date: 22/05/2016
Organising entity: Society for Biomaterials **Type of entity:** Associations and Groups
Gad Sabbatier; Aitor Larrañaga; AA Guay-Bégin; Jorge Fernández; Jose Ramon Sarasua; Gaetan Laroche.
- 6** **Title of the work:** Development of Tannic Acid and Catalase-Based Hollow Polymer Capsules to Prevent Oxidative Stress and Modulate Extracellular Matrix Activity in Interleukin-1beta Induced Inflammation Model of Nucleus Pulposus
Name of the conference: 10th World Biomaterials Congress
City of event: Montreal, Canada
Date of event: 17/05/2016
End date: 22/05/2016
Organising entity: Society for Biomaterials **Type of entity:** Associations and Groups
Aitor Larrañaga; IL Mohd Isa; Jose Ramon Sarasua; Abhay Pandit.
- 7** **Title of the work:** Impressive Toughness of Biodegradable Polylactides by Addition of Polydopamine Coated Radiopaque Particles
Name of the conference: 10th World Biomaterials Congress
City of event: Montreal, Canada
Date of event: 17/05/2016
End date: 22/05/2016
Organising entity: Society for Biomaterials **Type of entity:** Associations and Groups
Ester Zuza; Aitor Larrañaga; Inger Martínez de Arenaza; Naroa Sadaba; Daniel Ramos; Gemma Orpella; Jose Ramon Sarasua.
- 8** **Title of the work:** Investigating a Novel Polyhydroxyalkanoate/Multiwall Carbon Nanotubes Nanocomposites as an Electrically Conducting Implant Coating for Neuroprosthetic Devices
Name of the conference: 10th World Biomaterials Congress
City of event: Montreal, Canada
Date of event: 17/05/2016
End date: 22/05/2016
Organising entity: Society for Biomaterials **Type of entity:** Associations and Groups
Eugenia Plugiese; Aitor Larrañaga; Marc Fernández-Yague; Catalina Vallejo-Giraldo; Ghazal Tadayyon; Abhay Pandit; Manus Biggs.
- 9** **Title of the work:** Development of Antioxidant Hollow Polymer Microreactors to Prevent Oxidative Stress in Interleukin-1 β Induced Inflammation Model
Name of the conference: European Materials Research Society
City of event: Lille, France
Date of event: 02/05/2016
End date: 06/05/2016
Organising entity: European Materials Research Society **Type of entity:** Associations and Groups
Aitor Larrañaga; IL Mohd Isa; Jose Ramon Sarasua; Abhay Pandit.



- 10** **Title of the work:** ROS Responsive PLGA/Collagen Hollow Microspheres for Treating Hypoxic Microenvironments
Name of the conference: European Materials Research Society
City of event: Lille, France
Date of event: 02/05/2016
End date: 06/05/2016
Organising entity: European Materials Research Society
Type of entity: Associations and Groups
Christos Tapeinos; Aitor Larrañaga; Abhay Pandit.
- 11** **Title of the work:** Effect Coating of Bioglass Particles with Mussel-Inspired Polydopamine as a Strategy to Improve the Thermal Stability of Bioresorbable and Bioactive Poly(L-lactide)/Bioglass Composites
Name of the conference: Advanced Functional Polymers in Medicine
City of event: Galway, Ireland
Date of event: 23/03/2015
End date: 25/03/2016
Aitor Larrañaga; Daniel Ramos; Hegoi Amestoy; Ester Zuza; Jose Ramon Sarasua.
- 12** **Title of the work:** Bioactivity of Medium Chain Length Polyhydroxyalkanoate Scaffolds for Soft Tissue-Engineering Applications
Name of the conference: 26th European Conference on Biomaterials
City of event: Liverpool, United Kingdom
Date of event: 31/08/2014
End date: 03/09/2014
Organising entity: European Society for Biomaterials
Type of entity: Associations and Groups
Aitor Larrañaga; Jorge Fernández; C Ronchel; JL Adrio; Jose Ramon Sarasua.
- 13** **Title of the work:** Designing Multifunctional Nanofiber Scaffold for Endothelial Cells Adhesion and Proliferation on Vascular Substitutes
Name of the conference: 31st Annual Meeting of the Canadian Biomaterial Society
City of event: Halifax, Canada
Date of event: 05/06/2014
End date: 07/06/2014
Organising entity: Canadian Biomaterial Society
Type of entity: Associations and Groups
Gad Sabbatier; Aitor Larrañaga; NR Ko; A Cunningham; AA Guay-Bégin; Jorge Fernández; JK Oh; Jose Ramon Sarasua; Laroche Gaetán.
- 14** **Title of the work:** Effect of protein grafting on the hydrolytic degradation of lactide and caprolactone based biodegradable elastomeric terpolymer
Name of the conference: 4th International Symposium on Surface and Interface of Biomaterials
City of event: Roma, Italy
Date of event: 24/09/2013
End date: 28/09/2013
Aitor Larrañaga; AA Guay-Bégin; Pascale Chevallier; Gad Sabbatier; Jorge Fernández; Gaetán Laroche; Jose Ramon Sarasua.
- 15** **Title of the work:** Surface Modification and Characterization of a Lactide and Caprolactone Based Biodegradable Polymer by Atmospheric Pressure Plasma
Name of the conference: 25th European Conference on Biomaterials
City of event: Madrid, Spain



Date of event: 08/09/2013

End date: 12/09/2013

Organising entity: European Society for Biomaterials

Type of entity: Associations and Groups

Aitor Larrañaga; AA Guay-Bégin; Pascale Chevallier; Gad Sabbatier; Jorge Fernández; Gaetán Laroche; Jose Ramon Sarasua.

16 Title of the work: Evaluation of Shape Memory of a poly(racDL-lactide-co-glycolide) Amorphous Copolymer

Name of the conference: Eurotec 2013

City of event: Lyon, France

Date of event: 04/07/2013

End date: 05/07/2013

Organising entity: Society of Plastic Engineers

Susana Petisco; Aitor Larrañaga; Carlos Gracia; Jose Ramon Sarasua.

17 Title of the work: Phase-Structural Evolution in Poly lactides During an Initial 7 Day Degradation Period in PBS

Name of the conference: Eurotec 2013

City of event: Lyon, France

Date of event: 04/07/2013

End date: 05/07/2013

Organising entity: Society of Plastic Engineers

Hegoi Amestoy; Aitor Larrañaga; Jone Ugartemendia; Jose Ramon Sarasua.

18 Title of the work: Mechanical Properties and Cell Viability of Lactide and Caprolactone Based 3-Dimensional Scaffolds Filled with Inorganic Bioactive Particles

Name of the conference: 3rd TERMIS World Congress

City of event: Viena, Austria

Date of event: 05/09/2012

End date: 08/09/2012

Organising entity: Tissue Engineering & Regenerative Medicine International Society

Aitor Larrañaga; Jose Ramon Sarasua; Susana Petisco; Eva Rubio; Teodoro Palomares; Ana Isabel Alonso-Varona.

19 Title of the work: Mechanical Properties of Lactide Based Scaffolds Filled with Inorganic Bioactive Particles

Name of the conference: Eurotec 2011

City of event: Barcelona, Spain

Date of event: 14/11/2011

End date: 15/11/2011

Organising entity: Society of Plastic Engineers

Aitor Larrañaga; Jose Ramon Sarasua.

20 Title of the work: Physicochemical Properties of Plasma Polymerized Acrylic Acid, ϵ -caprolactone and Lactic Acid Films

Name of the conference: Eurotec 2011

City of event: Barcelona, Spain

Date of event: 14/11/2011

End date: 15/11/2011

Organising entity: Society of Plastic Engineers

Aitor Larrañaga; Susana Petisco; Raul Villabuena; Jagoba Iturri; Sergio Moya; Emiliano Meaurio; Jose Ramon Sarasua.



- 21 Title of the work:** In Vitro Degradation of Lactide Based Polymers and Copolymers
Name of the conference: Antec 2011
City of event: Boston, United States of America
Date of event: 01/05/2011
End date: 05/05/2011
Organising entity: Society of Plastic Engineers
 Aitor Larrañaga; Jose Ramon Sarasua.

Works submitted to national or international seminars, workshops and/or courses

- 1 Title of the work:** Polymer Capsules Functionalized with Tannic Acid to Prevent Oxidative Stress and Modulate Extracellular Matrix Activity in an In Vitro Inflammation Model of Nucleus Pulposus
Name of the event: Materials for Tissue Engineering
Corresponding author: Yes
City of event: Leioa, Basque Country, Spain
Date of event: 09/11/2017
End date: 09/11/2017
Organising entity: BCMaterials
City organizing entity: Basque Country, Spain
- 2 Title of the work:** Improving the Bioactivity of Bioresorbable Polyesters for Biomedical Applications
Name of the event: Ciclo de Seminarios del Instituto POLYMAT
City of event: San Sebastián, Spain
Date of event: 28/11/2014
End date: 28/11/2014
Organising entity: POLYMAT
Type of entity: R&D Centre
 Aitor Larrañaga; Jose Ramon Sarasua.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Comité de Ética en la Investigación con Agentes Biológicos y organismos modificados genéticamente (CEIAB)
Affiliation entity: Universidad del País Vasco
Type of entity: University
Start date: 09/04/2018

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Marie Skłodowska-Curie COFUND Fellowship
Performed tasks: Expert reviewer
Entity where activity was carried out: Centre for Research in Medical Devices
City of entity: Galway, Ireland
- 2 Performed tasks:** Reviewer Colloids and Surfaces B: Biointerfaces



- 3 **Performed tasks:** Reviewer Journal of Biological Engineering
- 4 **Performed tasks:** Reviewer Journal of Biomedical Materials Research: Part B - Applied Biomaterials
- 5 **Performed tasks:** Reviewer LatinAmerican Journal of Metallurgy and Materials
- 6 **Performed tasks:** Reviewer Polymer Testing
- 7 **Performed tasks:** Reviewer Polymer for Advanced Technologies
- 8 **Performed tasks:** Reviewer Scientific Reports

Other achievements

Stays in public or private R&D centres

- 1 **Entity:** National University of Ireland, Galway **Type of entity:** University
Faculty, institute or centre: Centre for Research in Medical Devices (CÚRAM)
City of entity: Galway, Ireland
Start-End date: 26/01/2015 - 25/01/2017 **Duration:** 2 years
Goals of the stay: Post-doctoral
- 2 **Entity:** Universität Basel **Type of entity:** University
Faculty, institute or centre: Department of Chemistry Physical Chemistry
City of entity: Basilea, Switzerland
Start-End date: 2016 - 2016 **Duration:** 2 months
Goals of the stay: Post-doctoral
- 3 **Entity:** Université Laval
Faculty, institute or centre: Faculté des sciences et de génie Département de génie des mines, de la métallurgie et des matériaux
City of entity: Quebec, Canada
Start-End date: 14/01/2013 - 26/04/2013 **Duration:** 3 months - 12 days
Goals of the stay: Doctorate



Obtained grants and scholarships

- 1** **Name of the grant:** Convocatoria del Programa Posdoctoral de Perfeccionamiento de Personal Investigador Doctor
Aims: Post-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** N/A
Conferral date: 01/01/2015 **Duration:** 3 years
End date: 31/12/2017
Entity where activity was carried out: National University of Ireland/Universidad del País Vasco
- 2** **Name of the grant:** Short Term Scientific Missions
Aims: Movilidad
Awarding entity: COST Action **Type of entity:** Public Research Body
Conferral date: 2016 **Duration:** 2 months
End date: 2016
Entity where activity was carried out: Universidad de Basilea (Basilea, Suiza)
- 3** **Name of the grant:** Convocatoria de contratación de doctores recientes hasta su integración en programas de formación postdoctoral en la UPV/EHU
Aims: Post-doctoral
Awarding entity: Universidad del País Vasco **Type of entity:** University
Conferral date: 07/07/2014 **Duration:** 5 months
End date: 31/12/2014
Entity where activity was carried out: Universidad del País Vasco
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería de Bilbao
- 4** **Name of the grant:** Formación de Personal de Investigación de la Universidad del País Vasco
Aims: Pre-doctoral
Awarding entity: Universidad del País Vasco **Type of entity:** University
Conferral date: 01/03/2010 **Duration:** 4 years
End date: 28/02/2014
Entity where activity was carried out: Universidad del País Vasco
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería de Bilbao
- 5** **Name of the grant:** Movilidad de Investigadores
Aims: Movilidad
Awarding entity: Universidad del País Vasco **Type of entity:** University
Conferral date: 12/01/2013 **Duration:** 3 months
End date: 26/04/2013
Entity where activity was carried out: Universidad Laval (Québec, Canadá)
- 6** **Name of the grant:** Juan de la Cierva-Incorporación
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Ministerio Universidades
Conferral date: 28/09/2018



Prizes, mentions and distinctions

- 1** **Description:** Premio Extraordinario de doctorado
Awarding entity: Universidad del País Vasco **Type of entity:** University
Conferral date: 2016
- 2** **Description:** V Concurso de Fotografía Científica
Awarding entity: Universidad del País Vasco **Type of entity:** University
Conferral date: 2014

Obtained accreditations/recognitions

Description: Acreditación Profesor Ayudante Doctor
Accrediting entity: Ministerio de Educación, cultura y deporte **Type of entity:** State agency
City accrediting entity: Spain
Date of recognition: 17/12/2014