CURRÍCULUM VÍTAE NORMALIZADO

Aitor Landa Álvarez

Generated from: Editor CVN de FECYT

Date of document: 13/01/2023

v 1.4.3

3fdeb306267b983d1048e663d369fb18

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

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.

After finish the chemistry degree (University of the Basque Country) in September of 1996, I started my PhD at the Department of Organic Chemistry I of the same University under the supervision of Prof. Claudio Palomo and Prof. Juan Miguel Oiarbide. My thesis work consisted in the "stereoselective synthesis of a novel class of sugar peptide hybrids through a acetate-Mannich reaction as a key strategic step" and in a “b-lactam based seteroselective access to a,g-dihydroxy a -amino acid-derived using the Sharpless AD reaction”, respectively. I finished the PhD in 2002 with the maximum qualification and then, I performed postdoctoral research first at the Institute of Nanotechnology in Karlsruhe (2002-2004 under the guidance of Prof. Mario Ruben) working in “Charge Transport Through single conjugate molecules”, and second at the University of Aarhus (2004-2006 under the guidance of Prof. Karl Anker Jorgensen) working in asymmetric “organocatalytic reactions”. At the end of 2006, I was awarded with a Ramon y Cajal contract (2006-2011) at the University of the Basque Country (Department of Organic Chemistry I). Afterwards, I obtained a permanent position as a Research Assistant Professor in the same place. The research I am doing is mainly focused on asymmetric synthesis with and without metals. My scientific career is reflected on the papers that have been published on behalf of the projects I participated on, both in organic and nanotechnology fields, all of them in high quality publications.

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.

Web of Science:
- Total Publications: 33 (27 articles + 3 book chapters + 3 reviews). JACS (4), ACIE (6), CEJ (6), JOC (6), Chemical Science (1), Nano Letters (1), Organic Letters (1), Small (1), Dalton Trans (1), Chemical Commun. (1).
- Articles first quartile (Q1) = 25
- h-index = 21

Aitor Landa Álvarez

Surname(s):	**Landa Álvarez**
Name:	**Aitor**
DNI:	**34097127H**
ORCID:	**0000-0001-8574-8568**
ScopusID:	**56979481600**
ResearcherID:	**AAA-5922-2019**
Date of birth:	**16/11/1971**
Gender:	**Male**
Nationality:	**Spain**
Country of birth:	**Spain**
Aut. region/reg. of birth:	**Basque Country**
Contact province:	**Gipuzkoa**
City of birth:	**Donostia - San Sebastián**
Contact address:	**Pº Manuel Lardiazabal, 3, Departamento de Química Orgánica I**
Rest of contact address:	**Chemistry Faculty**
Postcode:	**20018**
Contact country:	**Spain**
Contact aut. region/reg.:	**Basque Country**
Contact city:	**Donostia - San Sebastián**
Land line phone:	**(0034) 943015951**
Email:	**a.landa@ehu.es**
Personal web page:	**http://www.ehu.eus/es/web/gicas/hasiera**

Current professional situation

Employing entity: Universidad del País Vasco **Type of entity:** University
Department: Department of Organic Chemistry I, Facultad de Ciencias Químicas
Professional category: Associate professor
Start date: 01/10/2012
Type of contract: Permanent employment contract **Dedication regime:** Full time
Primary (UNESCO code): 230600 - Organic chemistry

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad del País Vasco	Permanent research doctor staff	02/12/2011
2	Universidad del País Vasco	Ramon y Cajal contract	01/12/2006
3	Aarhus University-Denmark	Postdoctoral research	01/10/2004
4	The Institute of Nanotechnology (INT) Karlsruhe	Postdoctoral researcher	01/04/2002

1 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Permanent research doctor staff
Start-End date: 02/12/2011 - 30/09/2012 **Duration:** 1 year - 1 month

2 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Ramon y Cajal contract
Start-End date: 01/12/2006 - 30/11/2011 **Duration:** 5 years

3 **Employing entity:** Aarhus University-Denmark **Type of entity:** University
Professional category: Postdoctoral research
Start-End date: 01/10/2004 - 30/11/2007 **Duration:** 2 years - 1 month - 29 days

4 **Employing entity:** The Institute of Nanotechnology (INT) Karlsruhe **Type of entity:** State agency
Professional category: Postdoctoral researcher
Start-End date: 01/04/2002 - 01/10/2005 **Duration:** 2 years - 6 months

Teaching experience

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Final yeard project: α'-Oxi inonas como nuevas plantillas electrofílicas en reacciones de Michael organocatalíticas y asimétricas bajo catálisis bifuncional.
Entity: Universidad del País Vasco **Type of entity:** University
Student: Iker Hernández Morales
Date of reading: 20/09/2021

2 **Project title:** Final year project: Search for new experimental procedures for the asymmetric synthesis of quaternary trifluoromethyl N,O-aminals
Entity: Universidad del País Vasco **Type of entity:** University
Student: Leire Villaescusa Arruebarrena
Date of reading: 14/09/2020

3 **Project title:** Final year project: Asymmetric Synthesis of Adjacent Tri- and Tetrasubstituted Carbon Stereocenters: Organocatalytic Aldol Reaction of an Hydantoin Surrogate with Azaarene 2-Carbaldehydes
Entity: Universidad del País Vasco **Type of entity:** University
Student: June Izquierdo Arruferia
Date of reading: 11/09/2019

4 **Project title:** Doctoral thesis: New Approaches to Optically Active 2-tert-Alkyl Azaaryl Compounds and 5,5-Disubstituted Hydantoins
Entity: University of the Basque Country **Type of entity:** University Department
Student: Joseba Izquierdo Arruferia
Date of reading: 14/06/2018

5 **Project title:** Final year project: Reacción de Michael enantioselectiva entre 5H-tiazol-4-onas y vinil bis-sulfonas promovida por nuevos catalizadores multifuncionales.
Entity: Universidad del País Vasco **Type of entity:** University
Student: Mikel López Delgado
Date of reading: 22/09/2017

6 **Project title:** Final year project: Síntesis enantio- y diastereoselectiva de nuevas 3-aril-N-hidantoínas 5,5-disustituidas a partir de 3-aril-N-1H-imidazol-4(5H)-onas y nitroolefinas promovida por catalizadores bifuncionales.
Entity: Universidad del País Vasco **Type of entity:** University
Student: Eider Duñabeitia Aizpurua
Date of reading: 22/09/2017

7 **Project title:** Doctoral thesis: Catalytic Asymmetric Synthesis of a,a-Disubstituted a-Thio- and a-Amino Acid Derivatives
Entity: University of the Basque Country **Type of entity:** University Department
Student: Julen Etxabe Telleria
Date of reading: 26/02/2016

8 **Project title:** Final year project: Síntesis enantioselectiva de tioles terciarios a partir de 5H-tiazol-4-onas y nitroolefinas promovida por catalizadores bifuncionales
Entity: Universidad del País Vasco **Type of entity:** University
Student: Joseba Izquierdo
Date of reading: 17/09/2013

9 **Project title:** Final year project: Reacción de Mannich con bis(sulfonil)metano promovida por bases de Brønsted. Co-dirección DEA
Entity: Universidad del País Vasco **Type of entity:** University
Student: Julen Etxabe Telleria
Date of reading: 18/09/2011

10 **Project title:** Final year project: Catálisis asimétrica mediante nuevos organocatalizadores. Co-dirección DEA
Entity: Universidad del País Vasco **Type of entity:** University
Student: Mikel Azkona Calero
Date of reading: 12/09/2009

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:** Catálisis asimétrica mediante bases de Brønsted para sustratos difíciles
Entity where project took place: University of the Basque Country **Type of entity:** University
City of entity: San Sebastián, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Oiarbide; Palomo; Landa; Vera; Antonia
Nº of researchers: 6
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** (PID2019-109633GB-C21)

Start-End date: 01/01/2020 - 31/12/2023
Total amount: 220.000 €

2 **Name of the project:** Ayuda a grupos de investigación del sistema universitario vasco
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: San Sebastián, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Claudio Palomo Nicolau; Juan Miguel Oiarbide Garmendia
Nº of researchers: 14
Funding entity or bodies:
Gobierno Vasco, Departamento de Agricultura, Pesca y Alimentación, Centro de Investigación y Mejora Agraria **Type of entity:** R&D Centre

Start-End date: 01/07/2019 - 31/07/2022
Total amount: 185.693 €

3 **Name of the project:** Catálisis asimétrica y síntesis orgánica
Entity where project took place: University of the Basque Country **Type of entity:** University
City of entity: San Sebastián, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Oiarbide; Palomo; Landa; Vera; Mielgo
Nº of researchers: 6
Funding entity or bodies:
Gobierno Vasco, Departamento de Agricultura, Pesca y Alimentación, Centro de Investigación y Mejora Agraria **Type of entity:** R&D Centre

Start-End date: 01/01/2019 - 31/12/2021
Total amount: 185.693 €

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

1 **Name of the project:** Preparacion de Trifluorometanosulfonato de 3-Carbamoyl-1-[2R,3S,4R,5R)-3,4-Dihidroxi-5-(Hidroximetil)Tetrahidrofuran-2-il] de Piridinio a partir del Trifluorosulfonato y control mediante NMR de Flúor
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Ignacio Gamboa Landa; Ángel García Martán; Claudio Palomo Nicolau; Aitor Landa Álvarez
Nº of researchers: 4
Participating entity/entities: Universidad del País Vasco
Funding entity or bodies:
StemTek Therapeutics **Type of entity:** Business
City funding entity: Derio, Basque Country, Spain

Start date: 05/06/2017 **Duration:** 3 months
Total amount: 6.530 €

2 **Name of the project:** Preparacion de Trifluorometanosulfonato de 3-Carbamoyl-1-[2R,3S,4R,5R)-3,4-Dihidroxi-5-(Hidroximetil)Tetrahidrofuran-2-il] de Piridinio
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Ignacio Gamboa Landa; Ángel García Martán; Claudio Palomo Nicolau; Aitor Landa Álvarez
Nº of researchers: 4
Participating entity/entities: Universidad del País Vasco
Funding entity or bodies:
StemTek Therapeutics **Type of entity:** Business
City funding entity: Derio, Basque Country, Spain

Start date: 29/09/2016 **Duration:** 3 months
Total amount: 20.390 €

3 **Name of the project:** Highly integrated molecular-electronic devices (MOLMEM)
Degree of contribution: Researcher
Nº of researchers: 6
Participating entity/entities: Bundesministerium für Bildung und Forschung; Infineon Technologies AG
Funding entity or bodies:
Bundesministerium für Bildung und Forschung (BMFT) y Infineon Technologies AG **Type of entity:** Business
City funding entity: Karlsruhe, Karlsruhe, Germany

Start date: 01/05/2002 **Duration:** 3 years
Total amount: 260.000 €

4 **Name of the project:** Nuevos materiales con propiedades antielastasa basados en b-lactamas. Preparación de un monómero de actividad antielastásica
Degree of contribution: Researcher
Nº of researchers: 7
Participating entity/entities: Gobierno Vasco
Funding entity or bodies:
INASMET Tecnalia **Type of entity:** Technological Centre
City funding entity: Donostia, Basque Country, Spain

Start date: 01/02/2001 **Duration:** 6 months
Total amount: 15.500 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Leire Villaescusa; Iker Hernández; Laura Azcue; Ainhoa Rudi; José M. Mercero; Aitor Landa; Mikel Oiarbide; Claudio Palomo. Rigidified Bis(sulfonyl)ethylenes as Effective Michael Acceptors for Asymmetric Catalysis: Application to the Enantioselective Synthesis of Quaternary Hydantoins. Journal of Organic Chemistry (https://doi.org/10.1021/acs.joc.2c02403). ACS, 11/01/2023.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes

2 Duñabeitia Eider; Landa Aitor; López R.; Palomo Claudio. Accessing Chiral Pyrrolodiketopiperazines under Organocatalytic Conditions. Organic Letters (https://doi.org/10.1021/acs.orglett.2c03924). ACS, 28/12/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

3 Valeria; Arianna; Giuliana; Fabio; Francesca; Emanuele; Alessandra; Aitor; Armando. DoE-Driven Development of an Organocatalytic Enantioselective Addition of Acetaldehyde to Nitrostyrenes in Wate. Chemistry—A European Journal (2 Citations). e202104524, European Chemical Society, 16/02/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

4 June Izquierdo; Noémie Demurget; Aitor Landa; Tore Brinck; José M. Mercero; Peter Dinér; Mikel Oiarbide; Claudio Palomo. Asymmetric Synthesis of Adjacent Tri- and TetrasubstitutedCarbon Stereocenters. Organocatalytic Aldol Reaction of anHydantoin Surrogate with Azaarene 2-Carbaldehydes. Chemistry—A European Journal (6 Citations). 25, pp. 12431 - 12438. John Wiley & Sons, 18/07/2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

5 Joseba Izquierdo; Julen Etxabe; Eider Duñabeitia; Aitor Landa; Mikel Oiarbide; Claudio Palomo. Enantioselective Synthesis of 5,5-Disubstituted Hydantoins by Brønsted Base/H-Bond Catalyst Assisted Michael Reactions of a Design Template (Hot paper). Chemistry-A European Journal (9 Citations). 24, pp. 7217 - 7227. John Wiley & Sons, 14/05/2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

6 Joseba Izquierdo; Aitor Landa; Iñaki Bastida; Rosa López; Mikel Oiarbide; Claudio Palomo. Base-Catalyzed Asymmetric α-Functionalization of 2-(Cyanomethyl)azaarene N-Oxides Leading to Quaternary Stereocenters. Journal of the American Chemical Society (44 Citations). 138, pp. 3282 - 3285. ACS, 03/03/2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

7 Julen Etxabe; Joseba Izquierdo; Aitor Landa; Mikel Oiarbide; Claudio Palomo. Catalytic Enantioselective Synthesis of N,Ca,Ca-Trisubstituted a-Amino Acid Derivatives Using 1H-Imidazol-4(5H)-ones as Key Templates. Angewandte Chemie International Edition (29 Citations). 54, pp. 6883 - 6886. Wiley-VCH, 23/04/2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

8 Saioa Diosdado; Julen Etxabe; Joseba Izquierdo; Aitor Landa; Antonia Mielgo; Iurre Olaizola; Rosa López; Claudio Palomo. Catalytic Enantioselective Synthesis of Tertiary Thiols From 5H-Thiazol-4-ones and Nitroolefins: Bifunctional Ureidopeptide-Based Brønsted Base Catalysis. Agewandte Chemie International Edition (48 Citations). 125, pp. 12062 - 12067. Wiley, 17/09/2013.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

9 Jacqueline Jiménez; Aitor Landa; Aitziber Lizarraga; Miguel Maestro; Antonia Mielgo; Mikel Oiarbide; Irene Velilla; Claudio Palomo. Organocatalytic Asymmetric Formal a-Alkylation of Aldehydes with 2-(Bromomethyl) Acrylates.Journal of Organic Chemistry (15 Citations). 77, pp. 747 - 753. ACS Publications, 16/11/2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

10 Israel Cano; Enrique Gómez-Bengoa; Aitor Landa; Miguel Maestro; Antonia Mielgo; Iurre Olaizola; Mikel Oiarbide; Claudio Palomo. N-(Diazoacetyl)oxazolidin-2-thiones as Sulfur Donor Reagents: Asymmetric Synthesis of Thiiranes from Aldehydes.Angewandte Chemie International Edition (19 Citations). 51, pp. 10856 - 10860. John Wiley & Sons, 11/05/2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

11 Organocatalytic Asymmetric Formal a-Alkylation of Aldehydes with 2-(Bromomethyl) Acrylates.Chemical Science (42 Citations). 2, pp. 353 - 357. Royal Society of Chemistry, 01/01/2011.
Type of production: Scientific paper **Format:** Journal

12 Aitor Landa; Angel Puente; Jose Ignacio Santos; Silvia Vera; Mikel Oiarbide; Claudio Palomo. Catalytic Conjugate Additions of Geminal Bis(sulfone)s: Expanding the Chemistry of Sulfones as Simple Alkyl Anion Equivalents.Chemistry-A European Journal (47 Citations). 15, pp. 11954 - 11962. John Wiley & Sons, 24/07/2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

13 Aitor Landa; Miguel Maestro; Carme Masdeu; Angel Puente; Silvia Vera; Mikel Oiarbide; Claudio Palomo. Highly enantioselective conjugate additions of aldehydes to vinyl sulfones. Chemistry-A European Journal (71 Citations). 15, pp. 1562 - 1565. John Wiley & Sons, 02/01/2009.
Type of production: Scientific paper **Format:** Journal

Corresponding author: No

14 Mario Ruben; Aitor Landa; Emanuel Lortscher; Heike Riel; Marcel Mayor; Helmar Gorls; Heiko B. Weber; Andreas Arnold; Ferdinand Evers. Charge Transport Through a Cardan-Joint Molecule.Small (56 Citations). 4, pp. 2229 - 2235. John Wiley & Sons, 24/08/2008.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

15 Claudio Palomo; Aitor Landa; Antonia Mielgo; Mikel Oiarbide; Angel Puente; Silvia Vera. Water-Compatible Iminium Activation: Organocatalytic Michael Reactions of Carbon-Centerd Nucleophiles with Enals.Angewandte Chemie International Edition (218 Citations). 46, pp. 8431 - 8435. John Wiley & Sons, 27/09/2007.
Type of production: Scientific paper **Format:** Journal

16 Aitor Landa; Bo Richter; Rasmus Lyng Johansen; Anna Minkkila; Karl Anker Jørgensen. Bisoxazoline-Lewis Acid-Catalyzed Direct-Electron Demand oxo-Hetero-Diels-Alder Reactions of N-Oxy-pyridine Aldehyde and Ketone Derivatives.Journal of Organic Chemistry (48 Citations). 72, pp. 240 - 245. ACS Publications, 01/02/2007.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

17 Armando Carlone; Mauro Marigo; Chris North; Aitor Landa; Karl Anker Jørgensen. A simple asymmetric organocatalytic approach to optically active cyclohexenones. Chemical Communications (193 Citations). pp. 1359 - 1345. Royal Society of Chemistry, 05/10/2006.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

18 Mario Ruben; Dietmar Payer; Aitor Landa; Alessio Comisso; Chiara Gattinoni; Nian Lin; Jean-Paul Collin; Jean-Pierre Sauvage; Alessandro De Vita; Klaus Kern. 2D Supramolecular Assemblies of Benzene-1,3,5-triyl-tribenzoic Acid: Temperature-Induced Phase Transformations and Hierarchical Organization with Macrocyclic Molecules.Journal of the American Chemical Society (202 Citations). 128, pp. 15644 - 15651. 23/05/2006.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

19 Sven Brandau; Aitor Landa; Johan Franzén; Mauro Marigo; Karl Anker Jørgensen. Organocatalytic Conjugate Addition of Malonates to a,b-Unsaturated Aldehydes: Asymmetric Formal Synthesis of (-)-Paroxetine, Chiral Lactams, and Lactones. Angewandte Chemie International Edition (285 Citations). 45, pp. 6058 - 6063. John Wiley & Sons, 28/04/2006.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

20 Aitor Landa; Anna Minkkila; Gonzalo Blay; Karl Anker Jørgensen. Bisoxazoline-Lewis-Acid Catalized Aldol Reactions of Aldehydes-Synthesis of Optically Active 2-(1-Hydroxyalkyl)pyridine Derivatives: Development, Scope and Total Synthesis of an Indolizine Alkaloid.Chemistry-A European Journal (60 Citations). 13, pp. 3472 - 3483. John Wiley & Sons, 20/03/2006.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

21 Mauro Marigo; Søren Bertelsen; Aitor Landa; Karl Anker Jørgensen. One-Pot Organocatalytic Domino Michael-Aldol and Intramolecular SN2 Reactions – Asymmetric Synthesis of Highly Functionalized Epoxy-Cyclohexanone Derivatives.Journal of the American Chemical Society (180 Citations). 128, pp. 5475 - 5479. ACS Publications, 14/03/2006.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

22 Mario Ruben; Aitor Landa; Paul Muller; Viacheslav Dremov; Stefan Stromsdorfe; Mohammad S. Alam; Klaus Kern; Franck Vidal; Sebastian Stepanow; Nian Nian Lin. Surface-Assisted Coordination Chemistry and Self-Assembly.Dalton Transactions (39 Citations). pp. 2794 - 2800. Royal Society of Chemistry, 20/12/2005.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

23 Kim Frisch; Aitor Landa; Steen Saaby; Karl Anker Jørgensen. Organocatalytic Diastereo- and Enantioselective Annulation Reactions-Construction of Optically Active 1,2-Dihydro-isoquinoline and -Phthalazine Derivatives.Angewandte Chemie International Edition (109 Citations). 44, pp. 6058 - 6063. John Wiley & Sons, 26/08/2005.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

24 Klaus Kern; Johannes V. Barth; Mario Ruben; Aitor Landa; Franck Vidal; Nian Lin; Sebastian Stepanow. Programming supramolecular assembly and chirality in two-dimensional dicarboxylate networks on a Cu(100) surface.Nano Letters (105 Citations). 5, pp. 901 - 904. ACS Publications, 31/03/2005.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

25 Claudio Palomo; Mikel Oiarbide; Aitor Landa; M. Concepción González-Rego; Jesús M. García; Alberto González; José M. Odriozola; Manuel Martín-Pastor; Anthony Linden. Design and Synthesis of a Novel Class of Sugar-Peptide Hybrids: C-Linked Glyco b-Amino Acids through a Stereoselective “Acetate” Mannich Reaction as the Key Strategic Element.Journal of the American Chemical Society (108 Citations). 124, pp. 8637 - 8643. ACS Publications, 20/03/2002.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

26 Claudio Palomo; Mikel Oiarbide; Aitor Landa; Aitor Esnal; Anthony Linden. A b-Lactam-Based Stereoselective Access to b-g-Dihydroxy a-Amino Acid-Derived Peptides with Either b-g-Like or Unlike Configurations.Journal of Organic Chemistry (49 Citations). 66, pp. 4180 - 4186. ACS Publications, 26/02/2001.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

27 Claudio Palomo; Mikel Oiarbide; Aitor Landa. A Strategy for the Asymmetric Aminohomologation of a-b Dihydroxy Aldehydes: Application to the Synthesis of the Southwest Tripeptide Segment of Echinocandin B.Journal of Organic Chemistry (21 Citations). 65, pp. 41 - 46. ACS, 15/06/2000.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

28 Claudio Palomo; Mikel Oiarbide; Aitor Esnal; Aitor Landa; José I. Miranda; Anthony Linden. Practical Synthesis of a-Amino Acid N-Carboxy Anhydrides of Polyhydroxylated a-Amino Acids from b-Lactam Frameworks. Model Studies toward the Synthesis of Directly Linked Peptidyl Nucleoside Antibiotics.Journal of Organic Chemistry (33 Citations). 63, pp. 5838 - 5846. ACS, 24/02/1998.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

29 Aitor Landa; Antonia Mielgo; Mikel Oiarbide; Claudio Palomo. Asymmetric Synthesis of ??Lactams by the Staudinger Reaction. Organic Reactions (2 Citations). 95, pp. 424 - 587. John Wiley & Sons, Inc. Edited by Scott E. Denmark et al., 10/09/2018.
Type of production: Book chapter **Format:** Book
Corresponding author: No

30 Comprehensive Enantioselective Organocatalysis. Addition of nitroalkyls and sulfones to C=X. Wiley-VCH, 01/07/2013.
Type of production: Book chapter **Format:** Book

31 Aitor Landa; Rosa López; Antonia Mielgo; Mikel Oiarbide; Claudio Palomo. Stereoselective Organocatalysis: Bond Formation Methodologies and Activation Modes. Organocalalytic C-N bond formation. pp. 381 - 42. Wiley-VCH, 10/05/2013.
Type of production: Book chapter **Format:** Book

32 Alexander Sorochinsky; Vadim A. Soloshonok; Aitor Landa; Santos Fustero; Jorge Escorihuela; Jianlin Han. Asymmetric Michael Addition in Synthesis of β-Substituted GABA Derivatives. Molecules (doi.org/10.3390/molecules27123797). 27 - 12, 10/06/2022.
Type of production: Review **Format:** Journal
Corresponding author: No

33 Lin Weikang; Liu Jiang; Alexander Sorochinsky; Greg Butler; Aitor Landa; Jianlin Han; Vadim A. Soloshonok. Successful trifluoromethoxy-containing pharmaceuticals and agrochemicals. Journal of Fluorine Chemistry (2 Citations). 257, pp. 109978 - 258. 13/05/2022.
Type of production: Review **Format:** Journal
Corresponding author: No

Works submitted to national or international conferences

1 **Title of the work:** Base-Promoted Asymmetric a–Functionalization of New Pronucleophiles Leading to Quaternary Stereocenters.
Name of the conference: XXXVI Reunión Bienal de la RSEQ
Corresponding author: Yes
City of event: Sitges, Catalonia, Spain
Date of event: 27/07/2017
End date: 28/07/2017
Organising entity: Real Sociedad Española de Química **Type of entity:** RSQE

2 **Title of the work:** New Pronucleophiles for Asymmetric Organocatalytic Reactions: Formation of Quaternary Stereocenters.
Name of the conference: 11th Spanish-Italian Symposium on Organic Chemistry SISOC-XI
Corresponding author: Yes
City of event: San Sebastián, Basque Country, Spain
Date of event: 13/07/2016
End date: 15/07/2016
Organising entity: Real Sociedad Española de Química

3 **Title of the work:** Sulfur Ylide Mediated Asymmetric Synthesis of Thiiranes from Aldehydes
Name of the conference: XXV Reunión Bienal de Química Orgánica.
Corresponding author: Yes
City of event: Alicante, Valencian Community, Spain
Date of event: 04/06/2014
End date: 06/06/2014
Organising entity: Real Sociedad Española de Química **Type of entity:** Associations and Groups

R&D management and participation in scientific committees

Organization of R&D activities

1 **Title of the activity:** XXXVII Biennial Meeting of the Spanish Royal Society of Chemistry (RSEQ)
Type of activity: Organizing committe
Geographical area: National
Convening entity: Real Sociedad Española de Química
Type of entity: Universidad del País Vasco
City convening entity: San Sebastián, Basque Country, Spain
Start-End date: 26/05/2019 - 30/05/2019
Duration: 5 days

2 **Title of the activity:** 11th Spanish-Italian Symposium on Organic Chemistry
Type of activity: Congreso
Convening entity: Real Sociedad de Química
Start-End date: 13/07/2016 - 15/07/2016

3 **Title of the activity:** XXIV Reunión Bienal del grupo especializado de química orgánica de la real sociedad química española (RSEQ).
Type of activity: Organización
Geographical area: National
Convening entity: Real Sociedad Española de Química
Type of entity: Universidad del País Vasco
City convening entity: San Sebastián, Basque Country, Spain
Start-End date: 11/07/2012 - 13/07/2012
Duration: 3 days

Other achievements

Stays in public or private R&D centres

1 **Entity:** Danish National Research Foundation: Center for Catálisis
Faculty, institute or centre: Aarhus University
City of entity: Aarhus, Danmark, Denmark
Start-End date: 01/10/2004 - 30/09/2006
Duration: 2 years
Goals of the stay: Post-doctoral

2 **Entity:** Forschungszentrum-Karlsruhe-FZK
Type of entity: State agency
City of entity: Karlsruhe, Karlsruhe, Germany
Start-End date: 01/04/2002 - 30/09/2004
Duration: 2 years - 3 months - 15 days
Goals of the stay: Post-doctoral

Obtained grants and scholarships

1 **Name of the grant:** Ramón y Cajal contract
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Basque Government Investigación
Conferral date: 01/12/2006 **Duration:** 5 years
End date: 30/11/2011
Entity where activity was carried out: University of the basque country
Faculty, institute or centre: faculty of chemistry

2 **Name of the grant:** Becario posdoctoral del Gobierno Vasco.
Aims: Post-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** --
Conferral date: 01/10/2004 **Duration:** 2 years
End date: 30/09/2006
Entity where activity was carried out: Universidad de Aarhus

3 **Name of the grant:** Becario posdoctoral del Ministerio de Ciencia y Tecnología.
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** -- Investigación
Conferral date: 01/07/2004 **Duration:** 2 months
End date: 30/09/2004
Entity where activity was carried out: FZKA.
Faculty, institute or centre: Instituto de Nanotecnología

4 **Name of the grant:** Contrato de trabajo de dos años para estancia posdoctoral.
Aims: Post-doctoral
Awarding entity: Bundesministerium für Bildung und Forschung (BMFT)
Conferral date: 15/06/2002 **Duration:** 2 years
End date: 14/06/2004
Entity where activity was carried out: Forschungszentrum Karlsruhe(FZKA).
Faculty, institute or centre: Instituto de Nanotecnología

5 **Name of the grant:** Contrato laboral pre-doctoral de tres años para obra o servicio determinado.
Aims: Pre-doctoral
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** -- Investigación
Conferral date: 01/06/1998 **Duration:** 3 years
End date: 01/06/2001

Obtained accreditations/recognitions

1 **Description:** Sexenio investigación 2013-2018
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Unibasq de la Calidad y Acreditación
City accrediting entity: Madrid, Community of Madrid, Spain
Date of recognition: 31/12/2018

2 **Description:** Sexenio investigación 2007-2012
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Unibasq de la Calidad y Acreditación
City accrediting entity: Madrid, Community of Madrid, Spain
Date of recognition: 21/11/2013

3 **Description:** Sexenio investigación 2001-2006
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Unibaq de la Calidad y Acreditación
City accrediting entity: Madrid, Community of Madrid, Spain
Date of recognition: 20/11/2013