

Part A. PERSONAL INFORMATION
CV date 15/04/2016

First and Family name	Claudio Palomo Nicolau		
Social Security, Passport, ID number	37655199J	Edad	64
Researcher numbers		Researcher ID	
		Orcid code	0000-0001-9809-2799

A.1. Current position

Name of University/Institution	University of the Basque Country UPV/EHU		
Department	Organic Chemistry I		
Address and Country	Paseo Manuel Lardizabal, 3; 20018- Donostia-San Sebastián		
Phone number	(+34) 943018200	E-mail	claudio.palomo@ehu.es
Current position	Catedrático Universidad	From	10/03/1989
Espec. cód. UNESCO	260610		
Palabras clave	Organic Chemistry, Asymmetric Catalysis, Organocatalysis		

A.2. Education

Title	University	Year
PhD-Organic Chemistry	University of the Basque Country UPV/EHU	1983
Licenciado en Ciencias Químicas	University of Barcelona	1979
Ingeniero Químico Diplomado	Institut Químic de Sarrià IQS	1975

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

247 articles published in peer-reviewed journals, including reviews and Highlights. Doctoral Thesis Supervised: 46; (2006-2016):19; h index 46. Sum of Times Cited without self-citations: 8159 . Average Citations per Item= 16,9.

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Visiting Professor: University of California at Berkeley; Host, Prof. Henry Rapoport, 1992/1993. **Awards:** IQS Award, Padre Salvador Gil, 1976; PhD Thesis Award, (UPV/EHU, 1983); Organic Chemistry Award, (Spanish Royal Society of Chemistry, 2002) Euskadi Research Award, (Basque Government, 2008). **Conferences and Seminars:** Regularly invited from academic institutions from Spain and abroad, most than 50 lectures. He has been *Hoffmann la Roche Lecturer-1992 (Basel, Switzerland)*, *IUPAC Lecturer-2000 (Warsaw, Poland)*, *Lilly Lecturer-2005 (Madrid, Spain)*, *Antonio Gonzalez Lecturer-2006 (Tenerife, Spain)*, *Serratosa Lecturer-2006 (Barcelona, Spain)*, *EJOC Lecturer-2012 (Lisboa, Portugal)* and *Barluenga Lecturer-2015 (Oviedo, Spain)*. **Research Interests:** Stereoselective carbon-carbon bond forming reactions. Asymmetric catalysis. Organocatalysis.

Author profile in Angewandte:

<http://onlinelibrary.wiley.com/doi/10.1002/anie.201208009/pdf>

Part C. RELEVANT MERITS
C.1. Publications (including books)

Most Relevant in Asymmetric catalysis assisted by metals (in parenthesis, times cited 15/04/2016; impact factor 2016)

C. Palomo; M. Oiarbide; R. Halder; M. Kelso; E. Gómez-Bengoa; J.M. García. Catalytic Enantioselective Conjugate Addition of Carbamates *J. Am. Chem. Soc.* **2004**, *126*, 9188-9189 (**99**) **Impact Factor:** 12,113

C. Palomo; M. Oiarbide; B.G. Kardak; J.M. Garcia; A. Linden. "Highly Enantioselective Friedel-Crafts Alkylation of Pyrroles and Indoles with α -Hydroxy Enones under Cu(II)-Simple Bis(oxazoline) Catalysis" *J. Am. Chem. Soc.* **2005**, 127, 4154-4155 (195). **Impact Factor:** 12,113 ([paper highlighted in Synfacts 2005, 0, 36](#))

C. Palomo; M. Oiarbide; A. Laso. "Enantioselective Henry Reactions under Dual Lewis Acid/Amine Catalysis Using Chiral Amino Alcohol Ligands" *Angew. Chem. Int. Ed.* **2005**, 44, 3881-3884 (180). **Impact Factor:** 9,596

C. Palomo; M. Oiarbide; R. Halder; A. Laso and R. López. "Enantioselective Aza-Henry Reactions Assisted by Zn(II) and N-Methyl Ephedrine" *Angew. Chem. Int. Ed.* **2006**, 45, 117-120 (77). **Impact Factor:** 11,261 ([paper highlighted in Synfacts, 2006, 1, 366](#))

Most Relevant in Asymmetric organocatalysis

C. Palomo; M. Oiarbide; A. Laso; R. Lopez. "Catalytic Enantioselective Aza-Henry Reaction with Broad Substrate Scope" *J. Am. Chem. Soc.* **2005**, 127, 17622-17623 (142). **Impact Factor:** 12,113 ([paper highlighted in Synfacts, 2006, 1, 169](#))

C. Palomo; S. Vera; A. Mielgo; E. Gómez-Bengoa. "Highly Efficient Asymmetric Michael Addition of Aldehydes to Nitroalkenes Catalyzed by a Simple *Trans*-4-Hydroxyprolynamide" *Angew. Chem. Int. Ed.* **2006**, 45, 5984-5987 (169). **Impact Factor:** 11,261

C. Palomo; A. Mielgo. "Diaryl Prolinol Ethers: Expanding the Potential of Enamine-Iminium Ion Catalysis". *Angew. Chem. Int. Ed.* **2006**, 45, 7876 - 7880. (356). **Impact Factor:** 11,261

C. Palomo; A. Landa; A. Mielgo; M. Oiarbide; A. Puente; S. Vera. "Water-Compatible Iminium Activation: Organocatalytic Michael Reactions of Carbon-Centered Nucleophiles with Enals" *Angew. Chem. Int. Ed.* **2007**, 46, 8431-8435 (158). **Impact Factor:** 11,261 ([paper highlighted in Synfacts, 2007, 12, 1313](#))

E. Gómez-Bengoa; J. Jiménez; I. Lapuerta; A. Mielgo; M. Oiarbide; I. Otazo; I. Velilla; S. Vera, C. Palomo. "Combined α,α -Dialkylprolinol Ether/Brønsted Acid Promotes Mannich Reactions of Aldehydes with Unactivated Imines. An Entry to anti-Configured Propargylic Aminoalcohols". *Chem. Sci.* **2012**, 3, 2949 – 2957 (14). **Impact Factor:** 9,211

E. Gómez-Bengoa, J. M. García, S. Jiménez, I. Lapuerta, A. Mielgo, J. M. Odriozola, I. Otazo, J. Razkin, I. Urruzuno, S. Vera, M. Oiarbide and C. Palomo. "Asymmetric synthesis of propargylic alcohols via aldol reaction of aldehydes with ynals promoted by prolinol ether–transition metal–Brønsted acid cooperative catalysis". *Chem. Sci.* **2013**, 4, 3198-3204 (9). **Impact Factor:** 9,211 ([paper highlighted in Synfacts, 2013, 9, 975](#))

Most Relevant Recent publications

J. Izquierdo, A. Landa; I. Bastida; R. López; M. Oiarbide; C. Palomo. "Base-Catalyzed Asymmetric α -Functionalization of 2-(Cyanomethyl) azaarene N-Oxides Leading to Quaternary Stereocenters" *J. Am. Chem. Soc.* **2016**, 138, 3282 - 3285. **Impact Factor:** 12,113

H. Echave; R. López; C. Palomo. "Bifunctional Brønsted Base Catalyzes Direct Asymmetric Aldol Reaction of α -Keto Amides". *Angew. Chem. Int. Ed.* **2016**, 55, 3364 - 3368. **Impact Factor:** 11,261

I. Lapuerta; S. Vera; M. Oiarbide; C. Palomo. "Development of a syn-Selective Mannich Reaction of Aldehydes with Propargylic Imines by Dual Catalysis: Asymmetric Synthesis of Functionalized Propargylic Amines". *Chem. Eur. J.* **2016**, 22, 7229-7237 **Impact Factor:** 5,731

J. Etxabe; J. Izquierdo; A. Landa; M. Oiarbide; C. Palomo. "Catalytic Enantioselective Synthesis of N,C- α ,C- α -Trisubstituted α -Amino Acid Derivatives Using 1H-Imidazol 4(5H)-ones as Key Templates". *Angew. Chem. Int. Ed.* **2015**, 54, 6883 - 6886. **Impact Factor:** 11,261

C.Palomo; R.López. Cyanoalkylation: Alkylnitriles in Catalytic C-C Bond- Forming Reactions. *Angew. Chem.Int.Ed.* **2015**, 54, 13170 – 13184. **Impact Factor:** 11,261

Book Chapters: 15

Recent Book Chapters

A.Landa; R.López; M.Oiarbide; C.Palomo. Additions of Nitroalkyls and Sulfones to C=X. Comprehensive Enantioselective Organocatalysis; P. Dalko, Ed.3, pp. 841 - 871. Weinheim(Alemania): Wiley-VCH, 2013.

A.Landa, R.López, A. Mielgo, M.Oiarbide, C.Palomo. Organocatalytic C-N bond formation. Stereoselective Organocatalysis. Bond Formation Methodologies and Activation Modes; R.Rios , Ed. pp. 381 - 431. Weinheim(Alemania): Wiley, 2013.

C.2. Research projects and grants

Projects I+D+i developed : >47 (MEC, GV, UPV/EHU)

Recent National Projects:

Catalizadores mono-y bifuncionales para transformaciones orgánicas, CTQ2013-47925-C2-1-P(MEC).**Investigadores responsables:** Palomo Nicolau, Claudio ;Oiarbide Garmendia, Mikel. **Fecha de inicio:** 2013. **Fecha fin:** 2016. **Finanaciación:** 244€

Catálisis Asimétrica y Síntesis Química IT-628-13(GV). **Investigador responsable:** Palomo Nicolau, Claudio **Fecha de inicio:** 2013. **Fecha fin:** 2018. **Finanaciación:** 422,6€

European Projects and COST Actions: 8

Recent COST Actions:

Name:Organocatalysis

Network Identification: COST Action CM0905 (Coordinador Prof. Petri Pihko)

Participating Countries: BE, CH, CZ, DE, EE, ES, FI, FR, GR, HU, IT, IE, LV, NL, NO, PT, RO, SI, SE,TR, UK. **Start date:** 2011, 3 años

Name: Functional peptidomimetic foldamers: from unnatural amino acids to self-assembling nanomaterials

Network Identification: COST Action CM0803 (Coordinador Prof. Ferenc Fülöp)

Participating Countries: Belgium, Hungary, Switzerland, Denmark, Italy, United Kingdom, France, Netherlands, Germany, Spain. **Start date:** 2010, 3 años

C.3. Contracts

Projects with industries : 9

C.4. Patents

Total Patents: 11

Most recent patent:

Title of the Invention: Procedimiento de preparación de 1,2-nitroalcoholes ópticamente activos, ES 2 238, 2005. **Authors:** C.Palomo ; M.Oiarbide ; A.Laso **Entity Holding:** UPV/EHU

C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)

Number of "Quinquenios": 6 Number of "Sexenios": 6

Membership of Scientific Societies: Spanish Royal Society of Chemistry, American Association for the Advancement of Science, American Chemical Society.

Research Group Leader: Asymmetric Catalysis and Chemical Synthesis, Approximately 20 researchers / year <http://www.qo.ehu.es/s0040-gicarhom/en/>. The team has continuously been designed as High Performance and Consolidated Group a distinctive recognition granted by the Basque Government consecutively since its establishment.

Responsible for Training and Research Unit (UFI): "Organic Chemistry, Synthesis and Catalysis" (QOSYC) of the UPV / EHU: Personal 80 / year <http://www.afi.ehu.es/p309-qosycm/es/>

Director of the Organic Chemistry Department 2004-2008 y 2012-2016

Vice President of the Organic Chemistry Group 2012-2016

<http://www.geqor.es/#!juntadegobierno/cfg>