



**CURRICULUM VITAE ABREVIADO (CVA)**

**IMPORTANT** – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

**Part A. PERSONAL INFORMATION**

First name	Jose Luis		
Family name	Vicario		
Gender (*)	Male	Birth date (dd/mm/yyyy)	11/04/1973
Social Security, Passport, ID number	18592109-J		
e-mail		URL Web	<a href="http://www.ehu.es/gsa">www.ehu.es/gsa</a>
Open Researcher and Contributor ID (ORCID) (*)	0000-0001-6557-1777		

(\*) Mandatory

**A.1. Current position**

Position	Full Professor (Catedrático de Universidad)		
Initial date	01/06/2016		
Institution	Universidad del País Vasco/Euskal Herriko Unibertsitatea		
Department/Center	Dep. Química Orgánica e Inorgánica	Fac. de Ciencia y Tecnología	
Country	Spain	Teleph. number	637 558213
Key words	Asymmetric Synthesis, Catalysis, Total Synthesis, Heterocyclic Chemistry, Organic Chemistry, Natural Products, Drug Synthesis		

**A.2. Previous positions (research activity interruptions, indicate total months)**

Period	Position/Institution/Country/Interruption cause
01/10/1996-08/05/2000	Predoctoral Researcher, University of the Basque Country
05/05/2000-03/12/2000	Profesor Asociado, University of the Basque Country
04/02/2000-19/08/2002	Profesor Titular Interino, University of the Basque Country
03/01/2001-31/07/2002	Postdoctoral Researcher, RWTH Aachen (Alemania)
20/08/2002-31/05/2016	Profesor Titular de Universidad, University of the Basque Country

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
Degree in Chemistry	University of the Basque Country (UPV/EHU)	1996
PhD in Chemistry	University of the Basque Country (UPV/EHU)	2000

(Include all the necessary rows)

**Part B. CV SUMMARY** (max. 5000 characters, including spaces)

Jose L. Vicario graduated in Chemistry from the University of the Basque Country (UPV/EHU) in 1996 and finished his undergraduate studies as Erasmus student under the guidance of Prof. Dr. Gerard van Koten at Utrecht University working in the field of organometallic chemistry by developing chiral Mn(II)/pincer catalysts for cross coupling and conjugate addition reactions. From 1997 to 2000 he carried out PhD studies the Univ. of the Basque Country under the supervision of Prof. Dr. M. D. Badía and Prof. Dr. E. Domínguez working in the development of synthetic methodology using chiral auxiliaries and the application toward the enantioselective total synthesis of isoquinoline alkaloids with a grant provided by the Basque Government. After postdoctoral studies in 2002 at the RWTH Aachen (Germany) under the supervision of Prof. Dr. Dieter Enders, where he worked in the total synthesis of natural product (-)-callystatin A. He returned in 2002 to the Dept. of Organic Chemistry II at the Univ. of the Basque Country as assistant professor, being appointed Associate Professor in 2003 and finally full professor in 2016.

He started his career as independent researcher in 2006, opening new research lines in the Department dealing with asymmetric organocatalysis and its applications in the

stereocontrolled synthesis of pharmacologically active compounds. In this area, the group of researchers lead by Prof. Vicario have made remarkable achievements, reporting several cases of unprecedented reactions or the first versions of known reactions in which organocatalysis activation is operating.

Prof. Vicario is coauthor of a total of 134 articles, 4 books and 14 book chapters. He has participated as researcher in a total of 38 projects funded by different public administrations and obtained in concurrent public calls (21 of them as PI). Prof. Vicario has codirected 23 PhD theses, 33 Master theses and 16 Degree theses. He has also been invited to give lectures and conferences in several international and national scientific meetings (34) and in Universities and research centers (29).

In 1998 and in 2003 respectively Jose L. Vicario received the "Degree Award" and the "Doctorate Award" given by the Univ. of the Basque Country. In 2009 Prof. Jose L. Vicario received the "Lilly Lecture Award" granted by the Spanish Royal Society of Chemistry and Lilly and in 2016 he was awarded the "Ribas Medal" by the Organic Chemistry Division of the RSEQ. He is also fellow of the RSEQ (since 2001) of the ACS (since 2006) and of the International Society of Heterocyclic Chemistry (since 2015). He is currently vice-president of the Division of Organic Chemistry of the RSEQ and member (Vocal) of the directing board of the RSEQ.

#### General indicators of quality of scientific production

Sexenios de investigación: 4

Number of PhD theses supervised: 25 (6 in progress); 15 in the last ten years

Number of articles published in indexed (JCR) journals: 134 (51 in the last ten years)

Total citations: 4540 (Wos); 5483 (GoogleScholar); Citations/article: 34.85 (Wos)

Number of Q1 publications: 106 (79%)

H index: 38 (Wos); 42 (GoogleScholar)

### **Part C. RELEVANT MERITS** (sorted by typology)

#### **C.1. Publications** (see instructions)

- 1.- Hurtado, J.; Iragorri, N.; Reyes, E.; Fernandez, E.; Vicario, J. L. "Cu-Catalyzed Enantioselective Borylative Desymmetrization of 1-Vinyl Cyclobutanols and Axial-to-Point Chirality Transfer in a Diastereoconvergent/Stereoretentive Allylation Scenery" *Angew. Chem. Int. Ed.* **2024**, 63, e202411232.
- 2.- Garay, G.; Hurtado, J.; Pedron, M.; Garcia, L.; Reyes, E.; Sanchez-Diez, E.; Tejero, T.; Merino, P.; Vicario, J. L. "Catalytic Enantioselective Vinylcyclopropane-Cyclopentene Rearrangement" *Angew. Chem. Int. Ed.* **2023**, 62, e202302416
- 3.- Sendra, J.; Reyes, E.; Prieto, L.; Fernandez, E.; Vicario, J. L. "Transannular Enantioselective (3+2) Cycloaddition of Cycloalkenone Hydrazones under Acid Catalysis" *Org. Lett.* **2021**, 23, 8738 (top 10 most read article in November)
- 4.- Rodriguez, S.; Uria, U.; Reyes, E.; Carrillo, L.; Tejero, T.; Merino, P.; Vicario, J. L. "Enantioselective Synthesis of Tropanes through Brønsted Acid-Catalyzed Pseudotransannular Desymmetrization" *Angew. Chem. Int. Ed.* **2020**, 59, 6780-6784.
- 5.- Sendra, J.; Manzano, R.; Reyes, E.; Vicario, J. L.; Fernandez, E. "Catalytic Stereoselective Borylative Transannular Reactions" *Angew. Chem. Int. Ed.* **2020**, 59, 2100-2104
- 6.- Mato, R.; Manzano, R.; Reyes, E.; Carrillo, L.; Uria, U.; Vicario, J. L. "Catalytic Enantioselective Transannular Morita-Baylis-Hillman Reaction" *J. Am. Chem. Soc.* **2019**, 141, 9495-9499 (Highlighted in *Synfacts*, **2019**, 15, 931)
- 7.- Ortega, A.; Manzano, R.; Uria, U.; Carrillo, L.; Reyes, E.; Tejero, T.; Merino, P.; Vicario, J. L. "Catalytic Enantioselective Cloke-Wilson Rearrangement" *Angew. Chem. Int. Ed.* **2018**, 57, 8225-8229 (Highlighted in *Synfacts*, **2018**, 868)

- 8.- Villar, L.; Uria, U.; Martinez, J. I.; Prieto, L.; Reyes, E.; Carrillo, L.; Vicario, J. L. "Enantioselective Oxidative (4+3) Cycloaddition between Allenamides and Furans through Bifunctional H-bonding/Ion Pairing Interactions"  
*Angew. Chem. Int. Ed.* **2017**, 56, 10535-10538 (Highlighted in *Synfacts* **2017**, 13, 1093).
- 9.- Orue, A.; Uria, U.; Roca-Lopez, D.; Delso, I.; Reyes, E.; Carrillo, L.; Merino, P.; Vicario, J. L. "Racemic hemiacetals as oxygen-centered pronucleophiles triggering cascade 1,4-addition/Michael reaction through DKR. Development and mechanistic insights"  
*Chem. Sci.* **2017**, 8, 2904-2913.
- 10.- Orue, A.; Uria, U.; Reyes, E.; Carrillo, L.; Vicario, J. L. "Catalytic Enantioselective [5+2] Cycloaddition between Oxidopyrylium Ylides and Enals under Dienamine Activation"  
*Angew. Chem. Int. Ed.* **2015**, 54, 3043-3046 (Highlighted in *Synfacts* **2015**, 11, 433).

**C.2. Congress**, indicating the modality of their participation (invited conference, oral presentation, poster)

- 1.- Jose L.- Vicario "Organocatalytic Enantioselective Reactions Driven by the Release of Ring Strain"  
XIV Spanish-Italian Symposium on Organic Chemistry  
Torino (Italy). 25/02/2024-27/02/2024, Invited lecture
- 2.- Jose L.- Vicario "Organocatalytic activation of strained molecules"  
7th Brazil-Spain Symposium in Organic Synthesis  
Ribeirao-Preto (Brazil). 9/07/2023-12/07/2023, Invited lecture
- 3.- Jose L.- Vicario "Exploring new reactivity patterns through the organocatalytic activation of small- and medium-sized carbocycles"  
8<sup>th</sup> EuChemS chemistry congress  
Lisbon (Portugal). 28/08/2022-01/09/2022, Invited lecture
- 4.- Jose L.- Vicario "Organocatalytic Enantioselective Cycloadditions and Transannular reactions"  
2019 Pharma and Food Lectures Series.  
Vienna (Austria), 12/10/2019-13/10/2019, Invited Lecture
- 5.- Jose L.- Vicario "Organocatalytic Activation of Strained Molecules"  
2<sup>nd</sup> Japan-Spain Symposium on Modern Synthetic Methodology  
Kyoto, (Japan), 28/05/2018-30/05/2018, Invited Lecture
- 6.- Jose L.- Vicario "Organocatalytic Activation of Strained Molecules"  
2018 Barluenga Lectureship  
Oviedo, (Spain), 08/11/2018-09/11/2018, Invited Lecture
- 7.- Jose L.- Vicario "Organocatalytic Enantioselective Cycloadditions and Transannular Reactions"  
Spanish-Japanese Symposium on Modern Synthetic Methodology  
Gijón, (Spain), 23/04/2017-26/04/2017, Keynote lecture
- 8.- Jose L.- Vicario "Playing with Rings. Organocatalytic Approaches to Stereodefine Carbon Heterocyclic Scaffolds"  
XXVI Reunión Bienal de Química Orgánica  
Huelva, (Spain), 14/06/2016-17/06/2016, Lilly Lecture
- 9.- Jose L.- Vicario "Complex Molecular Structures from simple materials through enantioselective aminocatalysis"  
1<sup>st</sup> meeting: Challenging Organic Synthesis Inspired by Nature  
Roma, (Italy), 05/10-06/10-2015, Invited Lecture
- 10.- Jose L.- Vicario "Aminocatalytic Cascade Reactions: Increasing Molecular Complexity from Simple Starting Materials"  
1st DOMINOCAT Symposium  
Aachen, (Germany), 09/09/2015-11/09/2015, Invited Lecture

**C.3. Research projects**, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

- 1.- Ayudas a "Redes de Investigación"  
Funding Organization: MICIN (RED2022-134331-T)  
Principal Investigator: Jose Luis Vicario  
From 01/01/2022 to 31/12/2024. Total Budget: 20.390 €
- 2.- Subvención General a Grupos Consolidados del Sistema Universitario Vasco  
Funding Organization: Gobierno Vasco (IT1558-22)  
Principal Investigator: Jose Luis Vicario/Esther Lete  
From 01/01/2022 to 31/12/2025. Total Budget: 217.350 €
- 3.- Nuevos patrones de reactividad impulsados por la liberación de tensión anular. Reacciones transanulares y de expansión de anillo  
Funding Organization: MICIN (PID2020-118422GB-I00)  
Principal Investigator: Jose Luis Vicario.  
From 01/09/2021 to 31/08/2024. Total Budget: 170.000 €
- 4.- Towards New Reactivity Patterns in Asymmetric Organocatalysis. Enantioselective Synthesis of Stereodefined Carbo- and Heterocyclic Scaffolds  
Funding Organization: MINECO (CTQ2017-83633-P)  
Principal Investigator: Jose Luis Vicario.  
From 01/01/2017 to 31/12/2019. Total Budget: 188.760 €
- 5.- Subvención General a Grupo de Investigación del Sistema Universitario Vasco  
Funding Organization: Gobierno Vasco. (IT908-16)  
Principal Investigator: Jose Luis Vicario.  
From 01/01/2016 to 31/12/2021. Total Budget: 333.104 €
- 6.- Challenging Organic Syntheses Inspired by Nature From Natural Products to Drug Discovery (NatChemDrugs).  
Funding Organization: EU-FP7. (COST Action CM1407)  
Principal Investigator: Bruno Botta (J. L. Vicario as participating Group Leader)  
From 16/05/2015 to 15/03/2019.. Total Budget: 346.000 €
- 7.- Uso de la tensión de anillo en organocatálisis enantioselectiva. Oportunidades para descubrir nueva reactividad  
Funding Organization: MINECO (CTQ2014-42107-P)  
Principal Investigator: Jose Luis Vicario.  
From 01/01/2015 to 31/12/2017. Total Budget: 168.000 €
8. Nuevos patrones de reactividad en organocatálisis asimétrica: síntesis estereocontrolada de carbo- y heterociclos de elevada complejidad estructural  
Funding Organization: Ministerio de Ciencia e Innovación (CTQ2011-22790)  
Principal Investigator: Jose Luis Vicario.  
From 01/01/2012 to 31/12/2014. Total Budget: 126.000 €
9. Organocatalysis - ORCA  
Funding Organization: EU-FP7. (COST Action CM0905)  
Principal Investigator: Rainier Mahrwald (J. L. Vicario as participating Group Leader)  
From 01/12/2009 to 31/6/2014. Total Budget: 429.355 €
10. Subvención General a Grupos Consolidados del Sistema Universitario Vasco  
Funding Organization: Gobierno Vasco (IT328-10)  
Principal Investigator: Jose Luis Vicario.  
From 01/01/2010 to 31/12/2015. Total Budget: 335.000 €

**C.4. Contracts, technological or transfer merits**