



Part A. PERSONAL INFORMATION

		CV date	14-10-2021
First and Family name	ASUNCIÓN BARBERO PÉREZ		
Social Security, Passport, ID number	45417398B		
Researcher codes	WoS Researcher ID (*)	L-6067-2014	
	SCOPUS Author ID(*)	7004120321	
	Open Researcher and Contributor ID (ORCID) **	0000-0001-6825-7775	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University/Institution	University of Valladolid		
Department	Organic Chemistry		
Address and Country	Paseo Belén 7, Campus Miguel Delibes, Valladolid (SPAIN)		
Phone number	983-423214	E-mail	asuncion.barbero@uva.es
Current position	Full Professor	From	30-03-2019
Key words	Organosilanes, heterocycles, cyclization, natural products analogs		

RELEVANT MERITS

1. Publications (including books)

Publications in peer-reviewed journals (10 selected publications from 01-01-2009)

- C. Díez-Poza, A. Barbero,* Unexpected Domino Silyl-Prins/Aryl Migration Process from Geminal Vinylsilyl Alcohols, *Org. Lett.* **2021**, in press. (IF 6.005, Q1 D1)
- C. Díez-Poza, P. Val, F. J. Pulido, A. Barbero* "Synthesis of polysubstituted tetrahydropyrans by stereoselective hydroalkoxylation of silyl alkenols: en route to tetrahydropyranyl marine analogs", *Mar. Drugs* **2018**, *16*, 421. (IF 3.772, Q1)
- H. Barbero, C. Díez-Poza, A. Barbero* "The oxepane motif in marine drugs", *Mar. Drugs* **2017**, *15*, 361. (IF 4.379, Q1 D1)
- A. Barbero,* A. Díez-Varga, F. J. Pulido, A. González-Ortega "Synthesis of azepane derivatives by silyl-aza-Prins cyclization of allylsilyl amines: Influence of the catalyst in the outcome of the reaction" *Org. Lett.* **2016**, *18*, 1972–1975. (IF 6.579, Q1 D1)
- A. Barbero,* A. Díez-Varga, M. Herrero, F. J. Pulido "From silylated trishomoallylic alcohols to dioxaspiroundecanes or oxocanes: catalyst and substitution influence" *J. Org. Chem.* **2016**, *81*, 2704–2712. (IF 4.849, Q1)
- A. G. Temprano, L. M. Monleón, O. M. Rubio, L. Simón, A. Barbero, F. Sanz, J. R. Morán* "A highly selective zwitterionic proline receptor" *Org. Biomol. Chem.* **2016**, *14*, 1325–1331 (IF 3.564, Q1)
- A. Díez-Varga, H. Barbero, F. J. Pulido, A. González-Ortega, A. Barbero* "Competitive silyl-Prins cyclization vs tandem Sakurai-Prins cyclization: an interesting substitution effect" *Chem. Eur. J.* **2014**, *20*, 14112–1411. (IF 5.731, Q1)
- A. Barbero,* A. Díez-Varga, F. J. Pulido "Multicomponent Prins cyclization from allylsilyl alcohols leading to dioxaspirodecane" *Org. Lett.* **2013**, *15*, 5234–5237. (IF 6.324, Q1 D1)
- F. J. Pulido,* A. Barbero,* P. Val, A. Díez, A. González-Ortega, "Efficiency of Acid- and Mercury-Catalyzed Cyclization Reactions in the Synthesis of Tetrahydrofurans from Allylsilyl Alcohols" *Eur. J. Org. Chem.* **2012**, 5350–5356. (IF 5.731, Q1)
- F. J. Pulido,* A. Barbero,* P. Castréño "Seven-membered ring formation from cyclopropanated oxo- and epoxyallylsilanes" *J. Org. Chem.* **2011**, *76*, 5850–5855. (IF 4.450, Q1)



Book chapters (from 01-01-2009)

1. C. Díez-Poza, H. Barbero, A. Díez-Varga, A. Barbero* "The silyl-Prins reaction as an emerging method for the synthesis of heterocycles" in "[Progress in Heterocyclic Chemistry](#)", G. Gribble and John Joule Eds., Elsevier, Oxford, U.K., **2018**, Vol. 30, pp. 13-41, ISBN: 978-0-08-102788-2.
2. F. J. Pulido, A. Barbero "Silyl- and stannylderivatives of organocopper compounds" in "[The Patai series: The chemistry of Organocopper Compounds](#)", Z. Rappoport and I. Marek Eds., John Wiley & Sons, Chichester, U.K., **2009**, Part II, Chap. 16, pp. 775-856, ISBN: 978-0-470-77296-6.
3. F. J. Pulido, P. Castreño, A. Barbero "Allene" in "[Encyclopedia of Reagents for Organic Synthesis](#)", L. A. Paquette, D. Crich, P. L. Fuchs, G. A. Molander, Eds., John Wiley & Sons Ltd. Chichester, U.K., **2009**, Vol. 1, pp. 150-156. ISBN: 978-0-470-01754-8.
4. F. J. Pulido, P. Castreño, A. Barbero "Isopropenyllithium" in "[Encyclopedia of Reagents for Organic Synthesis](#)", L. A. Paquette, D. Crich, P. L. Fuchs, G. A. Molander, Eds., John Wiley & Sons Ltd. Chichester, U.K., **2009**, Vol. 8, pp. 5871-5883. ISBN: 978-0-470-01754-8.

2. Research projects and grants (from 01-01-2009)

TITLE: "Caracterización espectroscópica en fase gas de la estructura y propiedades quirales de biomoléculas y moléculas orgánicas de interés biológico y sus microsolvatos"

FINANCIAL ENTITY: Ministerio de Economía, Industria y Competitividad, CTQ2016-75253-P

FROM: 01-01-2017

TILL: 01-01-2020

TITLE: "ELASTISLET-Tailored elastin-like recombinamers as advanced systems for cell therapies in diabetes mellitus: as synthetic biology approach towards a bioeffective and immunoisolated biosimilar islet/cell niche. Elastislet"

FINANCIAL ENTITY: European Commission, H2020-NMP-2014-646075

FROM: 01-05-2015

TILL: 31-05-2019

TITLE: "THE GRAIL-Tissue in host engineering guided regeneration of arterial intimal layer"

FINANCIAL ENTITY: European Commission, FP-Health-2011- 278557

FROM: 01-01-2012

TILL: 31-12-2016

TITLE: "Nuevos conceptos y modelos sintéticos en química de alilsilanos: alcance y posibilidades en síntesis de feromonas y otros productos naturales carbo- y heterocíclicos "

FINANCIAL ENTITY: **DGI**, nº CTQ2009-09302

FROM: 14-12-2009

TILL: 14-12-2012

TITLE: "Diseño y síntesis de sensores químicos fluorogénicos y de técnicas magneto-cromatográficas, desarrollo de sistemas automatizados con utilización de los sensores obtenidos para determinación de analitos de interés industrial"

FINANCIAL ENTITY: **JCYL (Proyectos for excellence groups)**, nº GR170

FROM: 01-01-2009

TILL: 31-12-2011

TITLE: "Alilsilanos en Química orgánica: nuevas metodologías sintéticas y su aplicación en síntesis de productos naturales"

FINANCIAL ENTITY: **DGI**, nº CTQ2006-02436

FROM: 01-10-2006

TILL: 30-09-2009

TITLE: "Síntesis de carbociclos de distinto tamaño usando la química del silicio"

FINANCIAL ENTITY: **JCYL**, nº VA074A08

FROM: 01-01-2008

TILL: 31-12-2010



3. Institutional responsibilities

Head of the Department of Organic Chemistry (University of Valladolid) (2018-)
Academic secretary of the Department of Organic Chemistry (University of Valladolid) (2016-2018)
Coordinator of the Chemistry Degree (University of Valladolid) (2013-2017 and 2019-)
Coordinator of the Master Degree in Education (University of Valladolid) (2013-2015)

4. Guest Editor of special issues in MDPI journals

Special Issue in [Marine Drugs](#): Synthetic and Biosynthetic Approaches to Marine Natural Products
Special Issue in [Molecules](#): Current Advances in Synthetic Bioheterocyclic Chemistry

5. Invited and plenary lectures in international conferences (from 01-01-2009)

Ten invited or plenary lectures from 2009