

CV date	September 30, 2018
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Part A. PERSONAL INFORMATION

First and Family name	Gloria	Rubiales	Alcaine
Passport, ID number	13072925R		Age 63
Researcher numbers	Researcher ID		
	Orcid code	orcid.org/0000-0003-1379-4666	

A.1. Current position

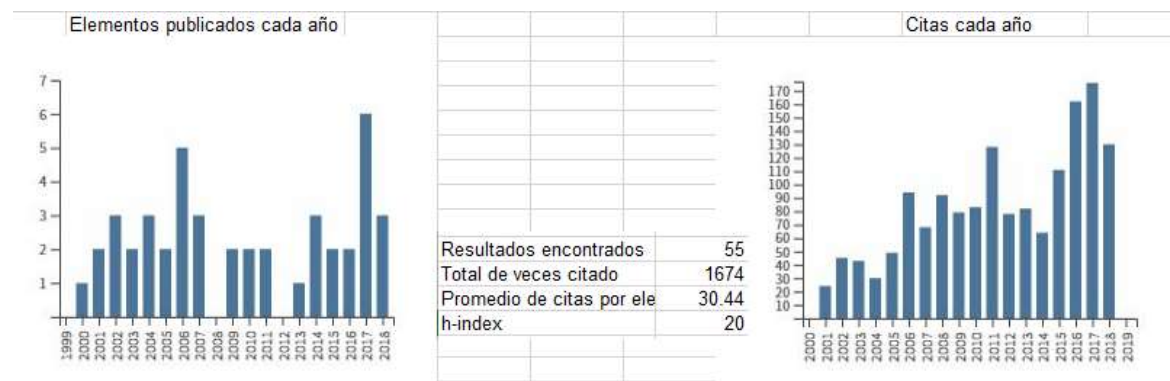
Name of University/Institution	Universidad del País Vasco		
Department	Química Orgánica I/ Facultad de Farmacia		
Address and Country	Paseo de la Universidad nº7 , 01006 Vitoria-Gasteiz		
Phone number	945013105	E-mail	gloria.rubiales@ehu.eus
Current position	Profesora Titular	From	05/1995
Espec. cód. UNESCO	230610- 230612-239001		
Palabras clave	Heterocycles, fluorinated and phosphorous compounds, drug design.		

A.2. Education

PhD	University	Year
Organic Chemistry	Universidad del País Vasco	1991

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

Number of research sexenios: **4**, the last one granted on June 17, 2015. According to the Web of Science:



Thesis supervised in the last 10 years:

-**Título del trabajo:** Design and synthesis of novel topoisomerase I Inhibitors. 1,5-Naphthyridine derivatives with antiproliferative activity. **Codirector/a tesis:** Francisco Palacios Gamba. **Entidad de realización:** Universidad del País Vasco Alumno/a: María González Saenz. **Calificación obtenida:** apto "cum laude". **Fecha de defensa:** 21/07/2016. **Mención de calidad:** Si, Tesis Internacional.

-**Título del trabajo:** Síntesis de heterociclos nitrogenados fluorados y fosforados. Nuevas familias de inhibidores de Topoisomerasa I. **Codirector/a tesis:** Francisco Palacios Gamba. **Entidad de realización:** Universidad del País Vasco Alumno/a: María Fuertes Sánchez. **Calificación obtenida:** apto "cum laude". **Fecha de defensa:** 30/11/2012. **Mención de calidad:** Si.

-**Título del trabajo:** 2-Azadienos Derivados de beta-aminoácidos como herramientas sintéticas. **Codirector/a tesis:** Francisco Palacios Gamba. **Entidad de realización:** Universidad del País Vasco. Alumno/a: Maite Villegas Cantero. **Calificación obtenida:** Sobresaliente "cum laude". **Fecha de defensa:** 30/05/2007.

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

Degree in Chemistry from the University of Valladolid and Bachelor's Degree (Tesina) from the same university. PhD in Chemistry from the University of the Basque Country PhD thesis directors Prof. Claudio Palomo and Prof. Fernando Cossío.

I worked with the group of Professor Prof. Claudio Palomo and Prof. Fernando Cossío until 1992, developing research tasks in the field of synthesis of β -lactamas. In 1992 I joined the research group of Prof. Francisco Palacios in which I have developed research tasks focused on the development of new methodologies for the synthesis of nitrogen-containing heterocyclic compounds containing phosphorus and fluorinated substituents, as well as in the design of new enzymatic inhibitors, Molecular Modeling, and computational chemistry.

Participation as a researcher in 25 research projects financed by International, National and Autonomous Government Entities. I am co-author of 30 communications to scientific congresses, mostly of international character and 51 scientific publications, all of them in international journals and most of them in Q1 and 4 book chapters.

I have been the director of 4 Doctoral Theses and co-director of the Licentiate Thesis: "Synthesis of 3-nitromethylazetidin-2-ones" (October 1991); "Synthesis of monocyclic and polycyclic pyridine derivatives of pharmacological interest" (June 1999); "Synthesis and Reactivity of simple 2-azadienes (October 2000); "Synthesis of nitrogenous polycyclic compounds by Diels-Alder Intramolecular Reaction of 2-azadiene systems" (January 2003). I have directed the Master's thesis "Synthesis of acyclic and cyclic fluorinated β -aminophosphonates" (2012).

I have worked in the Faculty of Pharmacy of the University of the Basque Country as Assistant Professor, Interim Professor and Full Professor (since 1995).

In this faculty, I have imparted periodically, theoretical and practical classes of Organic Chemistry, Extension of Organic Chemistry and Pharmaceutical Chemistry in the different degrees of the Faculty in which the Department of Organic Chemistry I, to which I belong, has assigned teaching tasks. Also, I have been a tutor for PhD students and Tutored Practices students of the Pharmacy Degree. I have participated in Thesis Courts, Thesis, Final Master's Works, Tutored Practices. On the other hand I have participated as a member of the Internal Committee in the Evaluation of Pharmacy Degree. Course 2005/2006. I am currently **Coordinator of 1st. Course of the Degree in Food Science and Technology** (September 2010-present). Also, in Faculty of Pharmacy of Vitoria I have been Vice Dean of International Relations, Cultural Extension and Cultural Activities (Jun.-Oct. 1997) and Academic Secretary (Oct. 1997-Jun. 2003), Member of the Faculty Board, by the staff of Contracted Professors (1992-1994) and Professors and Full Professors (1996-1997 and May 2010-present), member of the Collaboration Scholarship Commission (June 1992- May 1994 and November 2000 to 2004) , member of the Internal Regime Commission (March 1991 - May 1994). Member of the Commission for the Recognition of Studies (May 1994-December 2009), member of the Commission for Academic Organization (December 2009-2013).

Part C. RELEVANT MERITS

C.1. Publications (including books)

1.-Substituted 1,5-naphthyridine derivatives as novel antileishmanial agents. Synthesis and biological evaluation. By Tejeria, Ana; Perez-Pertejo, Yolanda; Reguera, Rosa M.; Balana-Fouce, Rafael; Alonso, Concepcion; Gonzalez, Maria; Rubiales, Gloria; Palacios, Francisco. *European Journal of Medicinal Chemistry* (2018), 152, 137-147. Language: English, <DOI:10.1016/j.ejmech.2018.04.033> ISSN:0223-5234. **Type:** article **Type of support:** journal. **Source of impact:** WOS (JCR) **Category:** CHEMISTRY, MEDICINAL **Impact index:** 4.816 (2017), 4.527 (in the last 5 years). **Posición:** 4. **Journals in cat.:** 59.

2.- Novel topoisomerase I inhibitors. Syntheses and biological evaluation of phosphorus substituted quinoline derivatives with antiproliferative activity. By Alonso, Concepcion; Fuertes, Maria; Martin-Encinas, Endika; Selas, Asier; Rubiales, Gloria; Tesaro, Cinzia; Knudssen, Birgitta K.; Palacios, Francisco. From *European Journal of Medicinal Chemistry* (2018), 149, 225-237. Language: English, <DOI:10.1016/j.ejmech.2018.02.058>

ISSN:0223-5234. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR) **Category:** CHEMISTRY, MEDICINAL **Impact index:** 4.816 (2017), 4.527 (in the last 5 years). **Posición:** 4. **Journals in cat.:** 59.

3.- Study of the Hetero-[4+2]-Cycloaddition Reaction of Aldimines and Alkynes. Synthesis of 1,5-Naphthyridine and Isoindolone Derivatives. By Alonso, Concepcion; Gonzalez, Maria; Palacios, Francisco; Rubiales, Gloria. From *Journal of Organic Chemistry* (2017), 82(12), 6379-6387. Language: English, <DOI:10.1021/acs.joc.7b00977>. ISSN 0022-3263. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, ORGANIC. **Impact index:** 4.805 (2017), 4.313 (in the last 5 years). **Posición:** 9. **Journals in cat.:** 57.

4.-Advantages of an optical nanosensor system for the mechanistic analysis of a novel topoisomerase I targeting drug: a case study. By Andersen, Marie B.; Tesaro, Cinzia; Gonzalez, Maria; Kristoffersen, Emil L.; Alonso, Concepcion; Rubiales, Gloria; Coletta, Andrea; Froehlich, Rikke; Stougaard, Magnus; Ho, Yi-Ping; et al. From *Nanoscale* (2017), 9(5), 1886-1895. Language: English, <DOI:10.1039/C6NR06848K>. ISSN:2040-3364. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, MULTIDISCIPLINARY. **Impact index:** 7.233 (2017), 7.713 (in the last 5 years). **Posición:** 25. **Journals in cat.:** 171.

5.- Synthesis and biological evaluation of indeno[1,5]naphthyridines as topoisomerase I (TopI) inhibitors with antiproliferative activity. By Alonso, Concepcion; Fuertes, Maria; Gonzalez, Maria; Rubiales, Gloria; Tesaro, Cinzia; Knudsen, Birgitta R.; Palacios, Francisco. From *European Journal of Medicinal Chemistry* (2016), 115, 179-190. Language: English, <DOI:10.1016/j.ejmech.2016.03.031> ISSN:0223-5234. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, MEDICINAL. **Impact index:** 4.816 (2017), 4.527 (in the last 5 years). **Posición:** 4. **Journals in cat.:** 59.

6.- Antileishmanial effect of new indeno-1,5-naphthyridines, selective inhibitors of Leishmania infantum type IB DNA topoisomerase. By Tejeria, Ana; Perez-Pertejo, Yolanda; Reguera, Rosa M.; Balana-Fouce, Rafael; Alonso, Concepcion; Fuertes, Maria; Gonzalez, Maria; Rubiales, Gloria; Palacios, Francisco. From *European Journal of Medicinal Chemistry* (2016), 124, 740-749. Language: English, <DOI:10.1016/j.ejmech.2016.09.017>. ISSN:0223-5234. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, MEDICINAL. **Impact index:** 4.816 (2017), 4.527 (in the last 5 years). **Posición:** 4. **Journals in cat.:** 59.

7.- Carbon Trifluoromethylation Reactions of Hydrocarbon Derivatives and Heteroarenes. By Alonso, Concepcion; Martinez de Marigorta, Eduardo; Rubiales, Gloria; Palacios, Francisco. From *Chemical Reviews* (Washington, DC, United States) (2015), 115(4), 1847-1935. Language: English, <DOI:10.1021/cr500368h> ISSN 0009-2665.

Type: article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, MULTIDISCIPLINARY. **Impact index:** 52.613 (2017) 55.198 (in the last 5 years). **Posición:** 1. **Journals in cat.:** 171. According to WOS (JCR): received enough citations to be included in the **1% of the best articles** of the academic field of "Chemistry" based on a threshold of articles very cited for the field and the year of publication. 101 citations

8.- Fluoroalkylated α,β -Unsaturated Imines as Synthons for the Preparation of Fluorinated Triazinane-2,4-diones and Dihydropyrimidin-2(1H)-ones. By Fernandez de Troconiz, Guillermo; Ochoa de Retana, Ana M.; Rubiales, Gloria; Palacios, Francisco. From *Journal of Organic Chemistry* (2014), 79(11), 5173-5181. Language: English, <DOI:10.1021/jo500745u>. ISSN 0022-3263. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, ORGANIC. **Impact index:** 4.805 (2017), 4.313 (in the last 5 years). **Posición:** 9. **Journals in cat.:** 57.

9 Synthesis of Fluorinated β -Aminophosphonates and γ -Lactams. By Alonso, Concepcion; Gonzalez, Maria; Fuertes, Maria; Rubiales, Gloria; Ezpeleta, Jose Maria; Palacios, Francisco. From *Journal of Organic Chemistry* (2013), 78(8), 3858-3866. Language: English, <DOI:10.1021/jo400281e>. ISSN 0022-3263. **Type:** article. **Type of**

support: journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, ORGANIC. **Impact index:** 4.805 (2017), 4.313 (in the last 5 years). **Posición:** 9. **Journals in cat.:** 57.

10.- Hetero-Diels-Alder Reaction of Phosphinyl and Phosphonyl Nitroso Alkenes with Conjugated Dienes: An Aza-Cope Rearrangement. By de los Santos, Jesus M.; Ignacio, Roberto; Rubiales, Gloria; Aparicio, Domitila; Palacios, Francisco. From *Journal of Organic Chemistry* (2011), 76(16), 6715-6725. Language: English, <DOI:10.1021/jo201116u>. ISSN0022-3263. **Type:** article. **Type of support:** journal. **Source of impact:** WOS (JCR). **Category:** CHEMISTRY, ORGANIC. **Impact index:** 4.805 (2017), 4.313 (in the last 5 years). **Posición:** 9. **Journals in cat.:** 57.

C.2. Research projects and grants

- 1.-Name:** Nuevas herramientas Sintéticas Basadas en Organocatálisis, Reacciones Umpolung y Formación selectiva de Heterociclos Nitrogenados para preparación de Inhibidores Enzimáticos. Facultad de Farmacia/Universidad del País Vasco. **IP:** Francisco Palacios Gamba. **Financed by:** Ministerio de Economía y Competitividad, CTQ2015-67871-R. 01/01/2016 - 31/01/2018.
- 2.- Name:** Síntesis Orientada a la Diversidad de Compuestos Acíclicos y Cíclicos Bioactivos. Facultad de Farmacia/Universidad del País Vasco. **IP:** Francisco Palacios Gamba. **Financed by:** Ministerio de Economía y Competitividad, CTQ 2012-34323. 01/01/2013 - 31/01/2016.
- 3.- Name:** Grupo FOSFAFLUORQUÍMICA. Facultad de Farmacia/Universidad del País Vasco. **IP:** Francisco Palacios Gamba. **Financed by:** Universidad País Vasco (Subvención Grupos Consolidados) GIU-09/57. 01/01/2010 - 31/12/2012.
- 4.- Name:** Nuevas herramientas sintéticas para la síntesis selectiva de compuestos fosforados y fluorados.: Facultad de Farmacia/Universidad del País Vasco. **IP :** Francisco Palacios Gamba. **Financed by:** MICINN, CTQ2009-12156. 01/01/2010 - 31/12/2012.
- 5.- Name:** Grupo FOSFAFLUORQUÍMICA. Facultad de Farmacia/Universidad del País Vasco. **IP:** Francisco Palacios Gamba. **Financed by:** Universidad País Vasco (Subvención Grupos Consolidados) GIU-06/5. 01/01/2007 - 31/12/2009.
- 6.- Name:** Procesos enantioselectivos de preparación de aminofosfonatos y reacciones de adición de sistemas conjugados. Síntesis en fase sólida de nuevos compuestos nitrogenados. Facultad de Farmacia/Universidad del País Vasco. **IP:** Francisco Palacios Gamba. **Financed by:** DGI Ministerio de Ciencia y Tecnología. 01/10/2006 - 30/09/2009.

C.5. Projects revision I+D+i

- 1** Evaluación de Proyectos. Como Experto Técnico. **Entidad de realización:** ZIURTEK Certificación I+D+i (Acreditada por ENAC). 2011 – 2012.
- 2** Evaluación de Proyectos **Entidad de realización:** Ministerio de Ciencia e Innovación. Investigación. **Tipo de entidad:** subprograma TORRES QUEVEDO. 2009 – 2009
- 3** Asesoría final antes de certificar un proyecto. **Funciones desempeñadas:** Asesor del Comité de Certificación. **Entidad de realización:** EQA Certificación I+D+i (Acreditada por ENAC). **Fecha de inicio:** 2014
- 4** Definir competencia técnica del experto que ha de evaluar un proyecto. **Funciones desempeñadas:** Evaluador 4 Dígitos Unesco. **Entidad de realización:** EQA Certificación I+D+i (Acreditada por ENAC). **Fecha de inicio:** 2014
- 5** Evaluación de Proyectos de Investigación. **Funciones desempeñadas:** Experto técnico. **Entidad de realización:** EQA Certificación I+D+i (Acreditada por ENAC). **Fecha de inicio:** 2013
- 6** Evaluación de Proyectos de Investigación. **Funciones desempeñadas:** Experto Técnico. **Entidad de realización:** Global Certificación I+D+i (Acreditada por ENAC). **Fecha de inicio:** 2012