

**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	Félix		
Family name	Rodríguez		
Gender (*)	Male		
e-mail	frodriquez@uniovi.es	URL Web	
Researcher numbers	Researcher ID	I-8173-2014	
	ORCID code	0000-0003-2441-1325	

(\*) Mandatory

**A.1. Current position**

Position	Catedrático de Universidad		
Initial date	09/03/2021		
Institution	Universidad de Oviedo		
Department/Center	Departamento de Química Orgánica e Inorgánica		
Country	Spain	Teleph. number	+34985106224
Key words	Organic Synthesis, Natural Products, Heterocycles, Catalysis		

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

Period	Position/Institution/Country/Interruption cause
2000-2001	Postdoctoral Associate Researcher. Department of Chemistry, University of Cambridge (England)
2002	Investigador Contratado del Programa Marie Curie de Reincorporación de Doctores. Departamento de Química Orgánica e Inorgánica, Universidad de Oviedo.
2002-2007	Investigador Contratado del Programa Ramón y Cajal. Departamento de Química Orgánica e Inorgánica, Universidad de Oviedo.
2007-2009	Profesor Contratado Doctor. Departamento de Química Orgánica e Inorgánica, Universidad de Oviedo.
2009-2021	Profesor Titular de Universidad, Departamento de Química Orgánica e Inorgánica, Universidad de Oviedo.

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
Degree in Chemistry	Universidad de Oviedo (Spain)	1993
PhD in Chemistry	Universidad de Oviedo (Spain)	1999

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

Félix Rodríguez studied Chemistry at the University of Oviedo where he also completed his PhD (1999) under the guidance of Professor José Barluenga. His research during this time was devoted to the study of new reactivity of organometallic species such as Fischer carbene complexes. The participation of this type of complexes in unprecedented C-H insertion reactions (*JACS* **1996**, 118, 6090 and *JACS* **1999**, 121, 8776) and radical processes (*ACIE* **1999**, 38, 3084) were some of the main achievements during this period.

Then, he moved to the University of Cambridge-UK for a postdoctoral stay (2000-2002) supported by a Marie Curie Fellowship from the European Union to work under the supervision of Professor Steven Ley. At Cambridge, his work dealt with the total synthesis of natural products, solid phase organic synthesis (*ACIE* **2001**, 40, 1053) and asymmetric synthesis (*ACIE* **2001**, 40, 4763). As a result of his work as postdoctoral fellow, Félix Rodríguez co-authored 10 articles.



In 2002, he returned to the University of Oviedo supported by another Marie Curie Fellowship (Category R) from the European Union. The same year he got a Ramón y Cajal contract (2003-2008), in 2009 became Associate Professor (Profesor Titular) and since 2021 he is Full Professor (Catedrático) in the University of Oviedo. Here, his research was initially directed to the field of organic synthesis by using zirconium complexes making important contributions to the field (*ACIE* **2006**, *45*, 6362 and *ACIE* **2007**, *46*, 2607). Then, he moved his research interest to the area of gold & platinum catalysis where he still is working on. In this context, he has contributed to the development of new multicomponent coupling reactions (*ACIE* **2013**, *52*, 6038 and *ACIE* **2016**, *55*, 7218) with applications in the total synthesis of natural products (*ACIE* **2012**, *51*, 4930). Nowadays, he is also involved in new research lines devoted to organocatalysis with chiral Brønsted acids (*Chem. Sci* **2014**, *5*, 996 and *Chem. Sci* **2020**, *11*, 9181) and the development of novel cationic biomimetic cyclization reactions (*ACIE* **2015**, *54*, 15506 and *CC* **2022**, *58*, 1089).

Regarding his collaborations, Félix Rodríguez belongs to the ORFEO-CINQA network and fruitful projects have been developed with Professor Roberto Sanz from the University of Burgos (*ACIE* **2008**, *47*, 7354, *ACIE* **2010**, *49*, 4633 and *OL* **2022**, *24*, 8077).

Félix Rodríguez is co-author of more than 110 scientific articles, monographs and book chapters (19 *Angew*, 4 *JACS*, 2 *ChemSci*, etc). He has received around 4000 citations (**h-index 36**).

He has supervised 12 PhD theses and 20 Master theses. His former PhD students are developing successful professional careers in the field of chemistry: Lucía Álvarez-Rodrigo (Project Manager at Saint Gobain Glass, Avilés-Asturias), Amadeo Fernández (Process Chemist at International Flavors & Fragrances, Castellón-Spain), Abraham Mendoza (Professor and Group Leader at University of Stockholm), Jonás Calleja (Principal Scientist at Domainex, Cambridge-UK), Tamara Arto (Research Scientist at GalChimia, Madrid-Spain), Susana Castro (Research Scientist at Villapharma Research, Murcia-Spain), Alicia Galván (Principal Scientist at Domainex, Cambridge-UK), Pilar Pardo (Research Scientist at Villapharma Research, Murcia-Spain), Lara Cala (Senior Scientist in Discovery Chemistry at Merck, San Francisco-USA), Pedro Alonso (Research Scientist at Villapharma Research, Murcia-Spain), Patricia Fernández (Junior Quality Technician at Eli-Lilly, Alcobendas-Spain) and Raquel Fontaneda (Research Scientist at Villapharma Research, Murcia-Spain).

Dr Rodríguez has also been invited to deliver lectures at national and international conferences, universities and research centers. He is Secretary of the Organizing Committee of the international scientific symposium "Barluenga Lectureship" yearly organized in Oviedo (Spain). Félix Rodríguez was awarded with the RSEQ Young Investigator Prize by the Spanish Royal Society of Chemistry (2005).

Along his career, he has obtained financial support from different international (Marie Curie Program of the European Union), national (Plan Estatal de Investigación) and regional (Principado de Asturias and Junta de Castilla y León) public funding agencies. He has also got financial support from private companies.

Félix Rodríguez codirects the QOSCAT (Química Orgánica Sintética y Catálisis) Research Group at the University of Oviedo and currently he is the Secretary of the Department of Organic and Inorganic Chemistry of this university. Also, he is the President of the *Sección Territorial de Asturias de la Real Sociedad Española de Química*.



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

### C.1. Publications (\* denotes author of correspondence)

- \* FJ Fañanás, A Mendoza, T Arto, B Temelli, F Rodríguez\* "Scalable Total Synthesis of (-)-Berkelic Acid Using a Protecting-Group-Free Strategy" *Angewandte Chemie International Edition*, 2012, 51, 4930-4933.
- \* A Galván, J Calleja, FJ Fañanás, F Rodríguez\* "Catalytic Generation and Selective Heterocoupling of Two Electron-Rich Alkenes" *Angewandte Chemie International Edition*, 2013, 52, 6038-6042.
- \* J Calleja, AB González-Pérez, AR de Lera, R Álvarez, FJ Fañanás, F Rodríguez\* "Enantioselective Synthesis of Hexahydrofuro[3,2-c]quinolines through a Multicatalytic and Multicomponent Process. A New Aromatic Sandwich Model for BINOL-Phosphoric Acid Catalyzed Reactions" *Chemical Science*, 2014, 5, 996-1007.
- \* P Alonso, P Pardo, FJ Fañanás, F Rodríguez\* "A Fast, Efficient and Simple Method for the Synthesis of Cyclic Alkenyl Fluorides by a Fluorinative Carbocyclization Reaction" *Chemical Communications*, 2014, 50, 14364-14366.
- \* P Alonso, P Pardo, A Galván, FJ Fañanás, F Rodríguez\* "Synthesis of Cyclic Alkenyl Triflates by a Cationic Cyclization Reaction and its Application in Biomimetic Polycyclizations and Synthesis of Terpenes" *Angewandte Chemie International Edition*, 2015, 54, 15506-15510.
- \* T Arto, P Fernández, FJ Fañanás, F Rodríguez\* "Complex Chromene Derivatives through a Silver-Catalysed Cascade Reaction of Simple o-Alkynylsalicylaldehydes and Alkenes" *Chemical Communications*, 2016, 52, 13405-13408.
- \* A Galván, A. B. González-Pérez, R Álvarez, AR de Lera, FJ Fañanás, F Rodríguez\* "Exploiting the Multidentate Nature of Chiral Disulfonimides in a Multicomponent Reaction for the Asymmetric Synthesis of Pyrrolo[1,2-a]indoles: A Remarkable Case of Enantioinversion" *Angewandte Chemie International Edition*, 2016, 55, 3428-3432.
- \* T Arto, FJ Fañanás, F Rodríguez\* "Gold(I)-Catalysed Generation of the Two Components of a Formal [4+2]-Cycloaddition Reaction Aimed to the Synthesis of Tetracyclic Pyrano[2,3,4-de]chromenes" *Angewandte Chemie International Edition*, 2016, 55, 7218-7221.
- \* R Fontaneda, FJ Fañanás, F Rodríguez\* "Construction of a Diverse Set of Terpenoid Decalin Subunits from a Common Enantiomerically Pure Scaffold Obtained by a Biomimetic Cationic Cyclization" *Chemical Communications*, 2018, 54, 11025-11028.
- \* L Cala, P Villar, AR de Lera, FJ Fañanás, R Álvarez, F Rodríguez\* "Multicomponent and Multicatalytic Asymmetric Synthesis of Furo[2,3-b]pyrrole Derivatives: Further Insights into the Mode of Action of Chiral Phosphoric Acid Catalysts" *Chemical Science*, 2020, 11, 9181-9190.

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

### **Selection of Recent Invited Lectures at Conferences, Workshops, and Seminars**

- \* Second US/Spain Workshop on Asymmetric Catalysis and Chemical Synthesis (Evanston-USA, 2013)
- \* Conferencias CIQUS-2013 (Santiago de Compostela, 2013)
- \* Ciclo Conferencias del Departamento Química Orgánica Universidad de Vigo-2013 (Vigo-Spain, 2013)
- \* One Day Organometallic Chemistry-2014 (Oviedo-Spain, 2014)
- \* IV Workshop UFI-QOSYC (San Sebastián-Spain, 2014)
- \* CIC-BIOMAGUNE Seminars (San Sebastián-Spain, 2014)



- \* Third US/Spain Workshop on Asymmetric Catalysis and Chemical Synthesis (Bilbao, 2016)
- \* 7<sup>a</sup> Jornadas de la red de Catálisis Asimétrica (Hondarribia-Spain, 2018)
- \* New Advances in Chemistry-IIQ Conference Cycle (Sevilla-Spain, 2018)
- \* 2<sup>nd</sup> Spanish Workshop on Phosphorous Chemistry (2022)

### **Conference Organization**

- \* Barluenga Lectureship (Secretary of the Organizing Committee, Editions: 2014-22)
- \* ICHAC-9 International Conference on Heteroatom Chemistry (Organizing Committee, 2009)

### **C.3. Research projects**

Félix Rodríguez has been continuously involved, as member and/or Principal Investigator, in research projects funded by different administrations and obtained in concurrent public calls. The most recent research projects where he is involved are the following:

- \* Estrategias en Química Orgánica Sintética y Catálisis para la Generación de Diversidad y Complejidad Molecular. (PID2019-107580GB-100). *Ministerio de Ciencia e Innovación*. PI: Félix Rodríguez (Co-PI: Carlos Valdés). From 01/06/2020 to 31/04/2023 (217.800 €)
- \* Desarrollo de Nuevos Métodos Sintéticos para la Construcción Eficiente de Complejidad Molecular: Aplicaciones en la Síntesis de Moléculas de Alto Valor Añadido. (CTQ2016-76794-P). *Ministerio de Economía y Competitividad*. PI: Félix Rodríguez (Co-PI: Carlos Valdés). From 01/01/2017 to 30/12/2020 (254.100 €)
- \* Síntesis Química Aplicada a la Preparación de Moléculas de interés en Biomedicina. (FC-GRUPIN-IDI/2018/000231). *Consejería de Industria y Empleo del Principado de Asturias*. PI: Félix Rodríguez. From 01/01/2018 to 31/12/2020 (182.600 €)

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

- \* Funcionalización Selectiva de Naftaleno por Activación de Enlaces C-H. *Industrial Química del Nalón, S.A.* PI: Félix Rodríguez. From 01/10/2010 to 01/10/2015 (100.000 €.)
- \* Desarrollo de Nuevas Metodologías en Dilución Isotópica Orgánica para la Determinación de  $\beta$ -Agonistas Mediante Marcaje Mínimo en <sup>13</sup>C. *ISC Science S.L.* PI: Félix Rodríguez. From 01/01/2010 to 31/12/2014 (60.000 €)