

CV Date	06/09/2021
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## Part A. PERSONAL INFORMATION

First Name *	Irene Eloisa		
Family Name *	Ortín Remón		
Sex *	Female	Date of Birth *	10/09/1982
ID number Social Security, Passport *	51453152J	Phone Number	(0034) 915344920
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	Researcher ID	M-5098-2018	
	Scopus Author ID		

\* Mandatory

### A.1. Current position

Job Title	Lecturer in Pharmaceutical and Organic Chemistry		
Starting date	2017		
Institution	Universidad San Pablo CEU		
Department / Centre	Chemistry and Biochemistry / Facultad de Farmacia		
Country		Phone Number	
Keywords			

### A.2. Previous positions

Period	Job Title / Name of Employer / Country
2016 - 2017	Quality Assurance Technician / Medinsa
2015 - 2015	Postdoctoral Research / Universidad Autónoma de Madrid / Spain
2013 - 2014	Project manager / Villapharma Research, S.L
2011 - 2013	Marie Curie Postdoctoral Fellowship / Oxford University
2006 - 2010	Formación de personal Universitario (FPU) / Universidad Complutense de Madrid

### A.3. Education

Degree/Master/PhD	University / Country	Year
Pharmaceutical Industry and Regulatory Affairs Master	EPHOS	2016
Programa Oficial de Doctorado en Química Médica	Universidad Complutense de Madrid	2010
Nutrition and Dietetics Master	Instituto profesional de Estudios de la Salud (IPS)	2009
Tesina	Facultad de Farmacia, Universidad Complutense de Madrid	2009
DEA	Facultad de Farmacia, Universidad Complutense de Madrid	2007
Pharmacy Degree	Facultad de Farmacia, Universidad Complutense de Madrid	2005

## Part B. CV SUMMARY

I obtained my PhD in the Department of Organic and Pharmaceutical Chemistry at the UCM (Spain) in 2010. My research was focused on the synthesis and biological activity studies in tetrahydroisoquinoline alkaloid natural products. During this period I acquired experience in

the structural elucidation of complex scaffolds using NMR facilities. In addition, I was trained in parallel synthesis to carry on SAR studies. As a result of this work, nine publications in refereed journals, one book and thirteen presentations at national and international meetings came out. During my PhD, I also spent five months in Prof. A. Ganesan's group (University of Southampton) working in the synthesis of Malformin and analogues in order to carry on biological studies. Since March 2011 till March 2013, I was working in Darren Dixon's group at the University of Oxford after being awarded a prestigious Marie Curie fellowship. My research project involved the design and development of enantioselective isocyanoacetate addition reactions under cooperative base and Lewis acid catalysis. As a junior researcher, I managed my own research project, supervised a first year PhD student and frequently proof read other member's theses, research updates and manuscripts for publication. As a result of this work, three publications in refereed journals, and two presentations in international meetings came out.

During my academic career, I have had the opportunity to benefit from national grants, such as "Collaboration Fellowship", "FPU Fellowship" for carrying out the PhD, "FPU Fellowship for PhD stays in foreign countries" and international grants such as "Marie Curie Fellowship" for a Postdoctoral stay of 2 years at Oxford University. Also I have had the opportunity to successfully teach undergraduates of Pharmacy Degree at UCM and first year undergraduate of Chemistry Degree at Wadham College at Oxford University.

Since September 2013 to December 2014, I was working as a Junior Researcher in Villapharma Research Company, managing a five researchers group to develop API's synthesis for Janssen S.A. through heterocyclic and macrocyclic chemistry; in parallel I was synthesizing compounds ready for 18F isotope introduction to carry out PET studies in vivo.

From January 2015 to January 2016, I was working at Universidad Autónoma de Madrid as a Postdoctoral Research in Professor Cardenas's group. I was carrying out the research in the development of first-row transition metal catalyzed reactions for the formation of C-C bonds and C-B bonds starting from low functionalized reagents, with the aim of performing wide-scope, environmentally friendly transformations.

In addition to the above mentioned experience, from January to november 2016 I attended a Pharmaceutical Industry and Regulatory Affairs Master in order to acquire knowledge and experience in other Pharmaceutical areas, and the same time I was working as a Quality Assurance Technician in Medinsa-Aristo. I continued working as a Quality Assurance Technician in the same company until september 2017.

In september 2017 I became lecturer in Pharmaceutical and Organic Chemistry at CEU university, where in addition to teaching Organic Chemistry, Pharmaceutical Chemistry and Chemistry and Protein Engineering in both English and Spanish, I work on the synthesis and biological evaluation of dual inhibitors CK2/HDAC, liposomes and PROTACs designed for cancer treatment.

## Part C. RELEVANT ACCOMPLISHMENTS

### C.1. Publications.

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 Scientific paper.** Raquel De la Campa; Adam D. Gammack Yamagata; Irene Ortin Remon; Allegra Franchino; Amber L. Thompson; Barbara Odell; Darren J. Dixon. 2016. Catalytic enantio- and diastereoselective Mannich reaction of ?-substituted isocyanoacetates and ketimines Chemical communications. 52, pp.10632-10635. ISSN 13597345. WOS (30)
- 2 Scientific paper.** Dr; Dr; Prof.(2/3). 2015. Direct Catalytic Enantio- and Diastereoselective Ketone Aldol Reactions of Isocyanoacetates Angewandte Chemie International Edition. 54-16, pp.4895-4898. ISSN 1521-3773. WOS (51)
- 3 Scientific paper.** Irene Ortin; Darren J. Dixon. (1/). 2014. Direct Catalytic Enantio- and Diastereoselective Mannich Reaction of Isocyanoacetates and Ketimines Angewandte Chemie International Edition. 126, pp.3530-3533. ISSN 1433-7851. WOS (73)

- 4 **Scientific paper.** Filippo Sladojevich; Ángel L. Fuentes de Arriba; Irene Ortin; Ting Yang; Alessandro Ferrali; Robert S. Paton; Darren J. Dixon. (3/). 2013. Mechanistic Investigations into the Enantioselective Conia-Ene Reaction Catalyzed by Cinchona-Derived Amino Urea Pre-Catalysts and  $\text{CuI}$  Chemistry: A European Journal. 19, pp.14286-14295. ISSN 09476539. WOS (21)
- 5 **Scientific paper.** Juan Francisco González Matilla; Irene Ortin Remon; Jose Carlos Menéndez. (1/). 2012. Privileged scaffolds in synthesis: 2,5-piperazinediones as templates for the preparation of structurally diverse heterocycles Chemical Society Review. The Royal Society of Chemistry. 41, pp.6902-6915. ISSN 0306-0012. WOS (38)
- 6 **Scientific paper.** Irene Ortín Remón; Juan Francisco González Matilla; Elena de la Cuesta Elósegui; Carmen Avendaño López. (1/). 2010. Synthesis of tetramic acids with a benzo[f]indolizine skeleton. Transannular Rearrangements in Pyrazino[1,2-b]isoquinoline-4-ones Tetrahedron. Elsevier. 66, pp.8713-8717. ISSN 0040-4020. WOS (5)
- 7 **Scientific paper.** Irene Ortín Remón; Juan Francisco González Matilla; Elena de la Cuesta Elósegui; Carmen Avendaño López. (1/). 2010. Cytotoxicity of new Pyrazino [1,2-b] isoquinoline and 6,15-lminoisoquino[3,2-b]-3-benzazocine Compounds Bioorganic and Medicinal Chemistry. Elsevier. 18, pp.6813-6821. ISSN 0968-0896. WOS (6)
- 8 **Scientific paper.** Irene Ortín Remón; Juan Francisco González Matilla; Elena de la Cuesta Elósegui; Carmen Avendaño López. (1/). 2010. Reactions promoted by [hydroxy(tosyloxy)iodo]benzene in pyrazino-[1,2-b]isoquinolines Tetrahedron. Elsevier. 66-3, pp.646-652. ISSN 0040-4020. WOS (2)
- 9 **Scientific paper.** Lena Huck; Irene Ortín Remón; Juan Francisco González Matilla; Elena de la Cuesta Elósegui; Carmen Avendaño López. (2/). 2010. Multi-gram synthesis of precursors of bibrachial diazaparacyclophanes. Complexes with  $\text{Zn}^{2+}$ ,  $\text{Cu}^{2+}$  and  $\text{Co}^{2+}$  ions Arkivoc. ARKAT-USA. iii, pp.200-211. ISSN 1551-7004. WOS (1)
- 10 **Scientific paper.** Irene Ortín Remón; Juan Francisco González Matilla; Cristina Manguán-García; Rosario Perona; Elena de la Cuesta Elósegui; Carmen Avendaño López. (1/). 2009. Cytotoxicity Mechanisms of Pyrazino[1,2-b]isoquinoline-4-ones and SAR studies Bioorganic and Medicinal Chemistry. Elsevier. 17, pp.8040-8047. ISSN 0968-0896. WOS (7)
- 11 **Scientific paper.** Irene Ortín Remón; Juan Francisco González Matilla; Elena de la Cuesta Elósegui; Carmen Avendaño López. (1/). 2009. C(3)-Alkylation and cyclization of pyrazino[1,2-b]isoquinolin-4-ones Tetrahedron. Elsevier. 65, pp.9944-9951. ISSN 0040-4020. WOS (7)
- 12 **Scientific paper.** Irene; Juan Francisco; Elena; Carmen. (1/4). 2009. Synthesis of a novel tetrahydroisoquinoline pentacyclic framework Tetrahedron. 65, pp.2201-2211. ISSN 0040-4020. WOS (13)
- 13 **Scientific paper.** Irene Ortín Remón; Juan Francisco González Matilla; Cristina Manguán-García; Rosario Perona; Elena de la Cuesta Elósegui; Carmen Avendaño López. (1/). 2008. Pyrazino[1,2-b]isoquinoline: Synthesis and Study of their Cytostatic and Cytotoxic Properties Bioorganic and Medicinal Chemistry. Elsevier. 16, pp.9065-9078. ISSN 0968-0896. WOS (28)
- 14 **Scientific book or monograph.** coautor; coautor. 2012. Agentes antitumorales inspirados en alcaloides de origen natural Editorial Académica Española. ISBN 978-3-659-02105. ISBN 3659021059.
- 15 **Review.** Loganathan Rangasamy; Bruno Di Geronimo; Irene Ortín; Claire Coderch; Jose María Zapico; Ana María Ramos; Beatriz De Pascual-Teresa. 2019. Molecular Imaging Probes Based on Matrix Metalloproteinase Inhibitors (MMPis) MOLECULES. 24-16. ISSN 14203049. WOS (4)
- 16 **Scientific paper.** (2/). 2020. New Dual CK2/HDAC1 Inhibitors with Nanomolar Inhibitory Activity against Both Enzymes ACS Med. Chem. Lett.11-5, pp.713-719. ISSN 1948-5875. WOS (1)

**17 Teaching Research publication.** Regina Martínez Flores; Irene Ortín Remón; Miryam Pastor Fernández; Ana Gradillas Nicolás; Gema Domínguez; M<sup>a</sup> Fernanda Rey-Stolla Valcarce; Benito Lacalle Pareja; Ana Ramos González. 2019. Taller de Grupos Funcionales: Estudio de la influencia de un aprendizaje activo en el proceso de enseñanza-aprendizaje de la Química Orgánica y en la motivación científica de futuros alumnos de grado I Congreso Interfacultativo de Innovación Docente CIFIC-1. Universidad San Pablo CEU. pp.138-139. ISBN 978-84-16477-91-3.

### C.3. R&D and innovation projects and contracts

- 1 Project.** Design, synthesis and biological evaluation of PROteolysis-Targeting Chimeric (PROTAC) molecules as anticancer agents (PROTACs). EUROPEAN COMMISSION. Irene Ortín 1. 04/04/2022-04/04/2024. 172.932 €.
- 2 Project.** Protacs, Tumor-Targeted Inhibitors and Probes for Cancer Detection and treatment. Beatriz de Pascual-Teresa Fernández. (San Pablo CEU University). 01/01/2019-01/01/2022. 85.426 €.
- 3 Project.** Heterociclos de interés biológico, CCG07-UCM-2882. Carmen Avendaño López. (Dpto Química Orgánica y Farmacéutica de la Facultad de Farmacia de la UCM). 01/01/2010-31/12/2010. 19.590 €.
- 4 Project.** Nuevas reacciones multicomponente catalizadas por especies de cerio (IV). Aplicaciones a la generación de diversidad y complejidad molecular, CTQ2006-10930/BQU. José Carlos Menéndez. (Dpto Química Orgánica y Farmacéutica de la Facultad de Farmacia de la UCM). 01/10/2006-30/09/2009.
- 5 Project.** Heterociclos de interés biológico, CCG07-UCM/SAL-2882. Carmen Avendaño López. (Dpto Química Orgánica y Farmacéutica de la Facultad de Farmacia de la UCM). 01/01/2008-31/12/2008. 26.000 €.
- 6 Project.** Heterociclos de interés biológico, 920234 de la UCM. (Dpto Química Orgánica y Farmacéutica de la Facultad de Farmacia de la UCM). 01/01/2007-31/12/2007.
- 7 Project.** Heterociclos de interés biológico, UCM-CAM 920234. Carmen Avendaño López. (Dpto Química Orgánica y Farmacéutica de la Facultad de Farmacia de la UCM). 01/01/2006-31/12/2006.
- 8 Project.** Análogos de antibióticos antitumorales de estructura tetrahydroisoquinolínica. Carmen Avendaño López. (Dpto Química Orgánica y Farmacéutica de la Facultad de Farmacia de la UCM and PharmaMar S.A.). 01/10/2003-30/09/2006.
- 9 Contract.**

### C.4. Activities of technology knowledge transfer and results exploitation