

## Part A. Personal Information

DATE	May 29 <sup>th</sup> 2019
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Surname(s)	Juan Carlos	
Forename	Estevez Cabanas	
Social Security, Passport, ID number	52.471.234-T	
Sex	Male	
Age	54	
Researcher numbers	Researcher ID	A-2185-2015
	Open Researcher and Contributor ID (ORCID)	0000-0001-9468-9045

## A.1. Current position

Post/ Professional Category	Lecturer in Organic Chemistry (accredited as Professor)	
UNESCO Code	2306	
Key Words	Carbohydrates, peptides, polymers, organic synthesis, natural products	
Name of the University/Institution		
	Department/Center	Center for Research in Biological Chemistry and Molecular Materials
	Full Address	Rúa Jenaro de la Fuente s/n Campus Vida Universidade de Santiago de Compostela 17782 Santiago de Compostela SPAIN
	Email Address	juancarlos.estevez@usc.es
	Phone Number	+34 625 514812
Start date		

## A.2. Education (title, institution, date)

1987	University of Santiago de Compostela	Bachelor in Chemistry	Title
1987	University of Santiago de Compostela	Master in Chemistry	Title: Synthesis of 5-oxoaporphines
1992	University of Santiago de Compostela	PhD in Chemical Sciences	Title: Synthesis of aporphines and phenanthrenic related compounds

## A.3. Indicators of Quality in Scientific Production (See the instructions)

Results found: 98
first decile (D1) 6
first quartile (Q1) 22
Sum of the Times Cited: 1102
Sum of Times Cited without self-citations: 849
Citing Articles: 628
Citing Articles without self-citations: 550
Average Citations per Item: 12.96
h-index: 22

**Part B. Free Summary of CV** (*Max. of 3.500 characters, including spaces*)

Professor in Organic Chemistry (accredited). University of Santiago de Compostela

**EDUCATION AND ACADEMIC POSITIONS**

1992-1994      Research Fellow (Prof G.W.J. Fleet)      . University of Oxford  
1994-1997      Associated Professor. University of Santiago de Compostela  
1997-2012      Lecturer in Organic Chemistry. University of Santiago de Compostela  
2012-2015      Professor in Organic Chemistry (accredited). University of Santiago de Compostela

12 PhD theses

96 articles in international journals

4 invited lectures

**RESEARCH AREA:**

Sugar mimics, including iminosugars, carbasugars and sugar amino acids. Peptidomimetics. Polimers.  
Total synthesis of natural products

**Part C. Accomplishments** (*Order by typology*)

2011.- Achievement of a position as researcher in the Center for Research in Biological Chemistry and Molecular Materials at the University of Santiago de Compostela.

**C.1. Publications (last ten years)**

1. Title: Environmental effects determine the structure of potential  $\beta$ -amino acid based foldamers  
Authors: Fredy Sussman, Víctor M. Sánchez-Pedregal, Juan C. Estévez, Rosalino Balo, Jesús Jiménez-Barbero, Ana Ardá, Ana Gimeno, Miriam Royo, M. Carmen Villaverde y Ramón J. Estévez  
*Molecules* 2019, 24(2), 352-365

2. Title: Environmental effects determine the structure of potential  $\beta$ -amino acid based foldamers  
Authors: Fredy Sussman, Víctor M. Sánchez-Pedregal, Juan C. Estévez, Rosalino Balo, Jesús Jiménez-Barbero, Ana Ardá, Ana Gimeno, Miriam Royo, M. Carmen Villaverde y Ramón J. Estévez  
*Chemistry. A European Journal* 2018, 24(42), 10625-10629

3. Title: Protocol for the incorporation of  $\gamma$ -amino acids into peptides: Application to (-)-shikimic acid based 2-amino-methylcyclohexanecarboxylic acids  
Authors: Gonzalez, Marcos A.; Estevez, Amalia M.; Campos, Maria; Estevez, Juan C.; Estevez, Ramon J.  
*JOC* 2018, 83, 1543-1550

4. Title: Raquel G. Soengas, Gustavo Silva and Juan C. Estévez  
Authors: Synthesis of Spironucleosides: Past and present Perspectives  
*Molecules* 2017, 22, 1500-1535

5. Title: A New Approach to the Synthesis of Benzo[b]naphtho[2,3-b]furan-6,11-diones and 2-Benzyl-3-hydroxynaphthalene-1,4-diones  
Authors: Jose C. Barcia, Jacobo Cruces, Cristian O. Salas, Juan C. Estévez, Mauricio A. Cuellar, Ricardo A. Tapia, Ramón J. Estévez  
*SynOpen* 2017, 1, 156-165

6. Title: Studies on Cycloalkane-Based Bisamide Organogelators: A New Example of Stochastic Chiral Symmetry-Breaking Induced by Sonication.  
Authors: Bernat Pi-Boleda, Marta Sans, María Campos, Pau Nolis, Ona Illa, Juan Carlos Estévez, Vicent Branchadell, Rosa M. Ortuño  
*Chemistry. A European Journal* 2017, 23(14), 3357-3365

7. Title: Preliminary Studies on the Synthesis of (-)-Shikimic acid Based 1,2,3,4-Tetrahydrobenzo-b-Phenanthridine-7,12-diones  
Authors: Cuellar, Muricio A.; Quiñones, Natalia; Vera, Viviana; Salas, Christian O.; Estévez Juan C.; Estevez, Ramón J.  
Synlett 2015, 26(4), 552-556
8. Title: A stereoselective transformation of (-)-shikimic acid into (3R,4S,5R,7R)-7-(hydroxymethyl)azepane-3,4,5-triol, a potential glycosidase inhibitor.  
Authors: Gonzalez-Castro, Marcos A.; Poole, Darren L.; Estevez, Juan C.; Fleet, George W. J.; Estevez, Ramon J.  
Tetrahedron Asymmetry 2015, 26, 320-23
9. Title: 2-Phenylaminonaphthoquinones and related compounds: Synthesis, typanocidal and cytotoxic activities.  
Authors: Sieveking, Ivan; Thomas, Pablo, Estévez, Juan C; Quiñones, Natalia; Cuellar, Muricio A.; Villena, Juan; Espinosa-Bustos, Christian; Fierro, Angélica; Tapia, Ricardo A.; Maya, Juan D.; López-Muñoz, Rodrigo; Cassels, Bruce K.; Estévez, Ramón J.; Salas, Christian O.  
Biorganic & Medicinal Chemistry 2014, 22(17), 4609-4620.
10. Title: Stereocontrolled transformation of nitrohexofuranoses into cyclopentylamines via 2-oxabicyclo[2,2,1]heptanes. Part 6: synthesis and incorporation into peptides of the first reported 2,3-dihydroxycyclopentanecarboxylic acid  
Authors: Amalia Estevez, Raquel G. Soengas, Pablo Thomas, Miguel Alegre, Balo Rosalino, Juan C. Estevez, Ramon J. Estevez  
Tetrahedron Asymmetry 2014, 25, 583-90
11. Title: The Intramolecular Diels-Alder Furan-Mediated Synthesis of 8-Aryl-3,4-Dihydroisoquinolin-1(2H)-ones, Convergent Precursors of Indeno[1,2,3-i]Isoquinolines.  
Authors: Treus, Mónica; Harwood, Laurence M.; Estévez, Juan C.; Salas, Christian O.; Drew, Michael G.B.; Estévez, Ramón J.  
Synlett 2013, 24(17), 2221-2224
12. Title: Indium-mediated aza-Henry reaction of imines: access to 2-nitroamines  
Authors: Soengas, Raquel G.; Silva, Sandrina; Estevez, Amalia M.; Estevez, Juan C.; Estevez, Ramon J.; Rodriguez-Solla, Humberto  
European Journal of Organic Chemistry 2012, 4339-4346.
13. Title: A Nitro Sugar-Mediated Stereocontrolled Synthesis of beta-2-Amino Acids: Synthesis of a Polyhydroxylated trans-2- Aminocyclohexanecarboxylic Acid  
Authors: Otero, Jose M.; Fernandez, Fernando; Estevez, Juan C.; Nash, Robert; Estevez, Ramon J.  
European Journal of Organic Chemistry 2012, 2969-2979
14. Title: Antioxidant activity, total phenolic content and skin care properties of 35 selected plants from Galicia (NW Spain)  
Authors: Ana Martinez, Juan Carlos Estevez, Francisco Javier Silva-Pando  
Frontiers in Life Science 2012, 6 (3,4), 77-86
120. Title: Preparation of sugar derived  $\beta,\beta'$ -dihydroxy  $\alpha,\alpha$ -disubstituted  $\alpha$ -amino acids  
Authors: Raquel G. Soengas, Amalia M. Estévez, Juan C. Estévez, Ramón J. Estévez  
Tetrahedron Asymmetry 2012, 23, 1238-42
15. Title: An overview of key routes for the transformation of sugars into carbasugars and related compounds  
Authors: Raquel G. Soengas, Jose M. Otero, Amalia M. Estevez, Amelia P. Rauter, Vasco Cachatra, Juan C. Estevez, Ramon J. Estevez  
Carbohydrate Chemistry 2012, 38, 263-302
16. Title: On a Possible Neutral Charge State for the Catalytic Dyad in  $\square$ -Secretase When Bound to Hydroxyethylene Transition State Analogue Inhibitors

- Authors: Sussman, Fredy; Otero, Jose M.; Villaverde, M. Carmen; Castro, Marian; Dominguez, Jose L.; Gonzalez-Louro, Lucia; Estevez, Ramon J.; Estevez, J. Carlos  
*Journal of Medicinal Chemistry* 2011, 54, 3081-3085
17. Title: An overview on the synthesis of furanoid and pyranoid sugar  $\alpha$ - and  $\beta$ - amino acids and related aminocycloalkanecarboxylic acids from carbohydrates.  
Authors: Raquel G. Soengas, Amalia M. Estévez, Juan C. Estévez y Ramón J. Estévez  
*Comptes Rendus Chimie* 2011, 14, 313-326
18. Title: (Z)-Ethyl 2-Phenyl-1(2-vinylphenyl)vinylcarbamates. Part I: Synthesis and preliminary studies on their divergent transformation into benzo[*c*]phenanthridines and 2-phenyl-1,4-naphthoquinones  
Authors: Mónica Treus, Christian O. Salas, Marcos A. González, Juan C. Estévez, Ricardo Tapia y Ramón J. Estévez  
*Tetrahedron* 2010, 66, 9986-95
19. Title: Stereocontrolled transformation of nitrohexofuranoses into cyclopentylamines *via* 2-oxabicyclo[2.2.1]heptanes. VI: Synthesis and incorporation of the novel polyhydroxylated 5-aminocyclopent-1-enecarboxylic acids into peptides.  
Authors: Fernando Fernández, Begoña Pampín, Marcos A. González, Juan C. Estévez and Ramón J. Estévez  
*Tetrahedron Asymmetry* 2010, 21, 2021-26
20. Title: Studies on the stereocontrolled transformation of nitrohexofuranoses into 2-oxabicyclo[2.2.1]heptanes V: Synthesis of enantiopure methyl (1*R*,2*R*,4*S*)-2-amino-4-hydroxycyclopentanecarboxylate  
Authors: Amalia Estévez, Raquel Soengas, Fernando Fernández, Juan C. Estévez, and Ramón J. Estévez  
*Tetrahedron Asymmetry* 2010, 21, 116-22
21. Title: Studies on the transformation of nitrosugars into iminosugars III: synthesis of (2*R*,3*R*,4*R*,5*R*,6*R*)-(hydroxymethyl)azepane-3,4,5,6-tetraol and (2*R*,3*R*,4*R*,5*R*,6*S*)-2-(hydroxymethyl)azepane-3,4,5,6-tetraol  
Authors: Amalia Estévez, Raquel Soengas, Fernando Fernández, Juan C. Estévez\*, and Ramón J. Estévez\*.  
*Tetrahedron Asymmetry* 2010, 21, 21-26
22. Title: Gold-facilitated '6-*Exo-dig*' Intramolecular Cyclization of 2-(2-((2-Nitrophenyl)ethynyl)phenyl)acetic Acids: A General Access to 5*H*-benzo[*b*]carbazole-6,11-diones  
Authors: Cristian Salas S., Francisco J. Reboredo, Juan C. Estévez, Ricardo A. Tapia and Ramón J. Estévez\*.  
*Synlett* 2009, 3107-10
23. Title: Searching the conformational space of cyclic b-peptides  
Authors: Sussman, M. Carmen Villaverde, Juan Carlos Estévez, Ramón J. Estévez  
*J. Phys. Chem.* 2009, 113, 9669-80
24. Title: Stereocontrolled transformation of nitrohexofuranoses into cyclopentylamines *via* 2-oxabicyclo[2.2.1]heptanes. IV: Synthesis of enantiopure methyl (1*S*,2*R*,3*R*,4*R*,5*S*)-5-benzyloxycarbonylamino-2,3-isopropylidenedioxy-4-methoxycyclopentanecarboxylate  
Fernando Fernández, Amalia M. Estévez, Juan C. Estévez\*, and Ramón J. Estévez\*.  
*Tetrahedron Asymmetry* 2009, 20, 892-96
25. Title: Recent advances in nitro sugar chemistry  
Authors: Raquel G. Soengas, Juan C. Estévez, Amalia M. Estévez, Fernando Fernández y Ramón J. Estévez  
*Carbohydr. Chem.* 2009, 35, 9-12

\* Corresponding author. Tel.: +34-981-563100; fax: +34-981-591014; e-mail: ramon.estevez@usc.es

26. Title: A nitro sugar mediated synthesis of 6-amino-1,5,6-trideoxy-1,5-imino-D-glucitol (6-amino-1,6-dideoxynojirimycin)  
Authors: M. Begoña Pamín, Amalia M. Estévez, Juan C. Estévez\*, and Ramón J. Estévez\*  
Tetrahedron Asymmetry 2009, 20, 503-507

27. Title: 3-*O*-Benzyl-6-*O*-benzoyl-1,2-*O*-isopropilidene-5-*C*-nitromethyl- $\alpha$ -D-glucofuranose  
Authors: Begoña Pampín, Laura Valencia, Juan C. Estévez and Ramón J. Estévez  
*Acta Cryst. E* **65**, 2009, : o332- o333

## C.2. Research Projects and Grants (last ten years)

1. Título del proyecto: Incorporación de miméticos de hidratos de carbono en cadenas polipeptídicas: diseño, síntesis y estudio estructural de péptidos de ácidos 2-aminocicloalcánicos polisustituídos.  
Grupo de Investigación GI-1608. Nanomateriales y Moléculas Bioactivas. (NANOBIOMOL)  
Entidad financiadora: Ministerio de Educación y Ciencia (CTQ-2005-00555/BQU).  
Duración: 2006-2009. Cuantía: 103.530 Euros.  
Investigador responsable: Ramón J. Estévez Cabanas

Título del proyecto: PROGRAMA DE CONSOLIDACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVAS DEL SISTEMA UNIVERSITARIO DE GALICIA  
Grupo de Investigación GI-1608. Nanomateriales y Moléculas Bioactivas. (NANOBIOMOL)  
Entidad financiadora: Xunta de Galicia (USC/GI1608)  
Duración, desde: 2006 hasta: 2008 Cuantía de subvención USC: 240000 euros  
Investigadores responsables en la USC: Ricardo Riguera Vega, Antonio Mouriño Mosquera, Ramón José Estévez Cabanas

Título del proyecto: Incorporación de miméticos de hidratos de carbono en cadenas polipeptídicas: diseño, síntesis y estudio estructural de péptidos de ácidos 2-aminociclocicloalcanocarboxílicos polisustituídos.  
Grupo de Investigación GI-1608. Nanomateriales y Moléculas Bioactivas. (NANOBIOMOL)  
Entidad financiadora: Ministerio de Ciencia e Innovación (CTQ2008-03105)  
Duración, desde: 2009 hasta: 2009 Cuantía de subvención USC: 10890 euros  
Investigadores responsables en la USC: Ramón José Estévez Cabanas

Título del proyecto: Aproximaciones sintéticas al estudio de la generación estereocontrolada de b-, g- y d-aminoácidos cicloalcánicos polihidroxilados.  
Grupo de Investigación GI-1608. Nanomateriales y Moléculas Bioactivas. (NANOBIOMOL)  
Entidad financiadora: Ministerio de Ciencia e Innovación (CTQ2009-08490)  
Duración, desde: 2010 hasta: 2013 Cuantía de subvención USC: 106000 euros  
Investigadores responsables en la USC: Ramón José Estévez Cabanas

Título del proyecto: PROGRAMA DE CONSOLIDACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVAS DEL SISTEMA UNIVERSITARIO DE GALICIA  
Grupo de Investigación GI-1608. Nanomateriales y Moléculas Bioactivas. (NANOBIOMOL)  
Entidad financiadora: Xunta de Galicia (Research Project CN2011/037)  
Duración, desde: 2011 hasta: 2013 Cuantía de subvención USC: 168000 euros  
Investigadores responsables en la USC: Ricardo Riguera Vega

Título del proyecto: DESARROLLO DE NUEVAS TERAPIAS COMPLEMENTARIAS PARA EL TRATAMIENTO DE ENFERMEDADES ONCOLÓGICAS  
Entidad financiadora: Xunta de Galicia (IN852A 2014/1)  
Entidades participantes: Oncostellae, AMSlab, GalChimia y CIQUS (USC)  
Duración, desde: 2014 hasta: 2015 Cuantía de la subvención : 58000 euros  
Investigador responsable en la USC: Ramón J. Estévez Cabanas  
Número de investigadores participantes en la USC: 3

Título del proyecto: PROGRAMA DE CONSOLIDACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVAS DEL SISTEMA UNIVERSITARIO DE GALICIA

Grupo de Investigación GI-1608. Nanomateriales y Moléculas Bioactivas. (NANOBIOMOL)  
Entidad financiadora: Xunta de Galicia (Research Project GRC2014/040. CONECTA-PEME)

Duración, desde: 2014 hasta: 2017

Cuantía de subvención USC: 320000 euros

Investigadores responsables en la USC: Ricardo Riguera Vega

Título del proyecto: Nuevos fármacos contra el cáncer: Desarrollo de terapias dirigidas a diferentes dianas terapéuticas y de tratamientos combinados (NEOGALFARM).

Entidad financiadora: Xunta de Galicia (Research Project IN852A 2016/2. CONECTA-PEME)

Entidades participantes: Oncostellae, AMSlab, GalChimia y CIQUS (USC)

Duración, desde: 2016 hasta: 2018

Cuantía de la subvención: 360000 euros

Investigador responsable en la USC (CIQUS): Juan Carlos Estévez Cabanas

Número de investigadores participantes en la USC: 2

Título del proyecto: Nanomateriales e moléculas bioactivas

Entidad financiadora: Xunta de Galicia (Research Project CN2011/037)

Entidades participantes: USC

Duración, desde: 2018 hasta: 2020

Cuantía de la subvención:

Investigador responsable en la USC (CIQUS): Emilio Quiño Cabana

Número de investigadores participantes en la USC: 3

Título del proyecto: Descubrimiento de agroquímicos para mejorar la resistencia a la sequía de plantas de cosecha.

Entidad financiadora: .Ministerio de Ciencia y Tecnología. RETOS COLABORACIÓN 2017 (2017-PN234) Ref.RTC-2017-6019-2

Duración, desde: 2018 hasta: 2020

Cuantía de la subvención. 103.034

Investigador responsable en la USC (CIQUS): María Isabel García Loza y Juan Carlos Estévez Cabanas

Número de investigadores participantes en la USC: 2

### C.3. Contracts

### C.4. Patents and other IPR

### C.5, C.6, C.7... Other

In the "Centro de Investigación en Química Biolóxica e Materiáis Moleculares (CiQUS)" of the "Universidade de Santiago de Compostela (USC)", I leads the group of "Carbohydrate Chemistry: New applications in Biological Chemistry and Materials Science"

I was Secretary (1995-2000) and Vice-Dean (2000-2002) of the GAcultade de Ciencias de Lugo (USC) and Secretary (1997-2011) of the Departamento de Química Orgánica (USC).





## Instructions

### Important Announcement

Following the Call for Proposals, **ONLY CVS PRESENTED IN THIS FORMAT WILL BE TAKEN INTO CONSIDERATION. CVs presented in other formats WILL BE DISMISSED with no possibilities for modifications.**

### **GENERAL CONSIDERATIONS**

Following the call it is mandatory to use the following format when filling the document: Font 11 on Times New Roman/ Arial, single interlineal space, lateral margins of 2.5cm and top and bottom margins of 1.5cm.

Max. extension of the whole document (Part A, B and C) cannot exceed four pages.

### **PART A. PERSONAL INFORMATION**

**Researcher ID** is a unique identifier that consists of alphanumeric characters that enable researchers to manage their publication lists, track their times cited counts and h-index, identify potential collaborators and avoid author misidentification. It is hosted by Web of Science.

Access: Web of Science > My Settings > Researcher ID

**Open Researcher and Contributor ID (ORCID)** provides a persistent digital identifier that distinguishes the researcher from every other person and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.

Access: [www.orcid.org](http://www.orcid.org)

### **A.3. Indicators of Quality in Scientific Production**

Please add information on a) total number of citations, average number of citations during the last five years, b) total number of publications in the first quartile (Q1) and first decile (D1), e) h index, and f) any other indicators that you may consider relevant.

To calculate these values, use default data collected in the Web of Science of Thomson Reuters and/or Scopus. When this is not possible, other indicators may be used, specifying the reference database.

### **PART B. FREE SUMMARY OF CV** *(Max. of 3.500 characters, including spaces)*

Describe briefly your scientific career, the main scientific-technical achievements, and the mid-to-long term scientific-technical interests and objectives of your research agenda. Indicate any other aspects that you may consider important to understand your career path.

### **PART C. ACCOMPLISHMENTS** **(Order by typology)**

Given the limitations in number of characters, please mention the most relevant achievements sorted by the typology that best suits your scientific profile. Please be clear and avoid ambiguities.

Use reverse chronological order within each section. Limit your merits over the past 5 years, except for those which have an extraordinary importance for your CV.

### **C.1. Publications**

Include a full review of relevant 5 to 10 publications.



In case of an article, please include authors in order of signature, year of publication, title of the article, name of the journal, volume, start page to end page.

If it's a book or chapter of a book, include its publisher and ISBN also.

If there are many authors, please indicate the total number of signatories and the position of the researcher (total number/ position of researcher) as for example 95/18.

### **C.2. Participation in Research, Development and Innovation Projects**

Indicate the most important projects in which you have participated (maximum 5 to 7 projects), including a) its reference, b) title, c) funding body and call for proposals, d) name of the principal investigator and his/her institution affiliation, e) date of start and end of the project, f) amount of subsidy, and g) your type of participation, e.g.: researcher, principal investigator, European project coordinator, etc..

### **C.3. Participation in Research, Development and Innovation Contracts**

Indicate the most important contracts in which you have participated (maximum 5 to 7 contracts), including a) title, b) company or entity, c) name of principal investigator and his/her institution affiliation, d) date of start and end of the contract, and e) amount of funding.

### **C.4. Patents**

Indicate the most important patents and other intellectual property in which you have collaborated. Give a) the order of signing authors, b) reference, c) title, d) priority countries, e) date, f) holder entity and companies that are exploiting the patents.

### **C.5, C.6, C.7... Other**

By sequential numbering (C.5, C.6, C.7 ...) please include any other achievements that you deem necessary, such as for example: directions of works, participation in assessment or advisory tasks, membership of international committees, management of scientific activity, editorial boards, scientific awards, etc.

## **FINAL CONSIDERATIONS**

Please remember that all the submitted achievements must be presented concisely, including dates or periods for each performance.

The short CV aims to facilitate, organize and streamline the evaluation process. The use of the individual identification number of the researcher facilitates access to the published scientific papers and information on the impact of each of them.

If you believe this short CV does not contain a representative part of your career, you may voluntarily include an extensive version in the proposal documentation, which will also be provided to the reviewers of your application.