



José Ignacio Márquez Corro

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Mi carrera científica empezó en 2014, durante mi último año en el Grado de Ciencias Ambientales de la Univ. Pablo de Olavide (UPO), donde obtuve una beca de iniciación a la investigación de 5 meses. Este periodo me estimuló a realizar el máster "Biodiversidad y Biología de la Conservación". Entre 2015 y 2021 realicé el doctorado, durante el cual realicé estancias en la Univ. Federal de Pernambuco, Univ. Autónoma de Madrid, y una virtual en la Univ. de Coimbra. He colaborado en artículos relacionados con diferentes aspectos (filogeográficos, taxonómicos, cromosomáticos, conservación...) de la familia de las ciperáceas, especialmente género *Carex*, y otros organismos (briófitos). He organizado y realizado **campañas de colecta de material vegetal** dentro de la Península Ibérica (Sistema Central, Pirineos...) e internacionales (isla Réunion -Islas Mascareñas- y Sudáfrica). También estuve trabajando en el herbario de la UPO (2016) en el prensado, secado, montaje, almacenamiento y conservación del material vegetal. He publicado un total de **21 artículos científicos** (18 con impacto internacional), **un capítulo de libro y un libro**, y tengo un **índice h 8**. He contribuido como **revisor de 11 artículos** para revistas de alto impacto, además de **2 revisiones para la lista roja de la IUCN**. Respecto a la **divulgación**, cabe mencionar la publicación del libro "Plantas silvestres y ornamentales del campus de la Universidad Pablo de Olavide", así como la organización del "I Biomaratón de Flora Española" y realización de talleres para el mismo en la Univ. Autónoma de Madrid, así como la participación en la Feria de la Ciencia en Sevilla. En cuanto a la **docencia**, he impartido clases prácticas en la UPO (total de **18 ECTS** hasta la fecha) y he tutelado a estudiantes internos y de fin de grado en el área de Botánica de la UPO.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

He publicado 21 artículos en revistas internacionales de impacto, de las cuales la mayoría pertenece al primer cuartil, así como un capítulo de libro y un libro. Estas publicaciones han sido citadas 162 veces hasta la fecha. Mi índice h actualmente es 7.

José Ignacio Márquez Corro

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ResearcherID: **K-8844-2019**
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Country of birth: **Spain**
Aut. region/reg. of birth: **Andalusia**
Contact province: **Seville**
City of birth: **Sevilla**
Contact address: **Carretera de Utrera, km. 1**
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Current professional situation

Employing entity: Universidad Pablo de Olavide **Type of entity:** University
Department: Biología Molecular e Ingeniería Bioquímica, Facultad de Ciencias Experimentales
Professional category: Periodo de Orientación **Educational Management (Yes/No):** Yes
Postdoctoral (POP)
Start date: 30/06/2021
Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time
Field of management activity: University

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Pablo de Olavide	Formación Personal Investigador (FPI)	01/07/2018
2	Universidad Pablo de Olavide	Titulado Superior de Apoyo a la Investigación	15/01/2017
3	Universidad Pablo de Olavide	Titulado Superior de Apoyo a la Investigación	17/10/2016
4	Universidad Pablo de Olavide	Becario de Iniciación a la Investigación	17/02/2014



- 1** **Employing entity:** Universidad Pablo de Olavide **Type of entity:** University
Professional category: Formación Personal Investigador (FPI) **Educational Management (Yes/No):** Yes
Start-End date: 01/07/2018 - 29/06/2021 **Duration:** 2 years - 11 months - 28 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of management activity: University
- 2** **Employing entity:** Universidad Pablo de Olavide **Type of entity:** University
Professional category: Titulado Superior de Apoyo a la Investigación
Start-End date: 15/01/2017 - 30/06/2018 **Duration:** 1 year - 5 months - 15 days
- 3** **Employing entity:** Universidad Pablo de Olavide **Type of entity:** University
Professional category: Titulado Superior de Apoyo a la Investigación
Start-End date: 17/10/2016 - 31/12/2016 **Duration:** 76 days
- 4** **Employing entity:** Universidad Pablo de Olavide **Type of entity:** University
Department: Biología Molecular e Ingeniería Bioquímica
City employing entity: Sevilla, Andalusia, Spain
Professional category: Becario de Iniciación a la Investigación **Educational Management (Yes/No):** No
Start-End date: 17/02/2014 - 16/07/2014 **Duration:** 5 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Graduado o Graduada en Ciencias Ambientales

Degree awarding entity: Universidad Pablo de Olavide **Type of entity:** University

Date of qualification: 24/07/2014

Average mark: Good

Doctorates

Doctorate programme: Medio Ambiente y Sociedad

Degree awarding entity: Universidad Pablo de Olavide **Type of entity:** University

Date of degree: 2021

Thesis director: Santiago Martín Bravo

Thesis co-director: Antonio Marcial Escudero Lirio

Other postgraduate university studies

Type of education: Masters

Postgraduate qualification: Máster Universitario en Biodiversidad y Biología de la Conservación

City degree awarding entity: Andalusia, Spain

Degree awarding entity: Universidad Pablo de Olavide **Type of entity:** University

Date of qualification: 27/11/2015

Obtained qualification: 8,86

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

1 **Type of training:** Course

Training title: Bases Estadísticas para la Investigación (asignatura del máster Biodiversidad y Biología de la Conservación)

City awarding entity: Sevilla, Andalusia, Spain

Awarding entity: Universidad Pablo de Olavide **Type of entity:** University

Aims of the entity: SOBRESALIENTE 9.3

End date: 05/12/2019

Duration in hours: 10 hours

**2 Type of training:** Course**Training title:** Robust and reproducible assembly and analysis of RAD-Seq datasets**Awarding entity:** Universidad de Málaga**Type of entity:** University**End date:** 08/01/2019**Duration in hours:** 7 hours**3 Type of training:** Course**Training title:** Madphylo: Madrid Workshop in Statistical Phylogenetics**City awarding entity:** Madrid, Community of Madrid, Spain**Awarding entity:** Real Jardín Botánico**Type of entity:** State agency**End date:** 12/08/2018**Duration in hours:** 80 hours**4 Type of training:** Course**Training title:** Análisis bioestadístico con modelos de tipo regresión en R**Awarding entity:** Universidad Pablo de Olavide**Type of entity:** University**End date:** 08/11/2016**Duration in hours:** 20 hours**5 Type of training:** Course**Training title:** Funcionalidades avanzadas de SCOPUS**Awarding entity:** Universidad Pablo de Olavide**End date:** 21/04/2016**Duration in hours:** 3 hours**6 Type of training:** Course**Training title:** Escritura de artículos científicos**Awarding entity:** Universidad Pablo de Olavide**End date:** 11/12/2015**Duration in hours:** 4 hours**7 Type of training:** Course**Training title:** Publicidad, Consumo y Medio Ambiente**Awarding entity:** Universidad Pablo de Olavide**End date:** 04/2014**Type of entity:** University**Duration in hours:** 15 hours**8 Type of training:** Course**Training title:** Competencias en Información Básica para Estudiantes de Grado**Awarding entity:** Universidad Pablo de Olavide**End date:** 05/2013**Type of entity:** University**Duration in hours:** 25 hours**Language skills**

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C1	B2	C1	C1	B2



Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: Flora y Vegetación
Professional category: Formación Personal Investigador
Type of teaching: Laboratory work
Type of subject: Obligatory
University degree: Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide
Course given: 3º
Start date: 28/01/2020 **End date:** 14/05/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3,15
Entity: Universidad Pablo de Olavide **Type of entity:** University
- 2** **Type of teaching:** Official teaching
Name of the course: Recursos animales y vegetales en Biotecnología
Professional category: Formación Personal Investigador
Type of teaching: Laboratory work
Type of subject: Optional
University degree: Graduado o Graduada en Biotecnología por la Universidad Pablo de Olavide
Course given: 2º
Start date: 24/02/2021 **End date:** 11/03/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 0,6
Entity: Universidad Pablo de Olavide **Type of entity:** University
- 3** **Type of teaching:** Official teaching
Name of the course: Gestión, Conservación y Explotación de Recursos Vegetales
Professional category: Formación Personal Investigador
Type of teaching: Laboratory work
Type of subject: Obligatory
University degree: Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide
Course given: 3º
Start date: 21/10/2020 **End date:** 27/11/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 2,25
Entity: Universidad Pablo de Olavide **Type of entity:** University
- 4** **Type of teaching:** Official teaching
Name of the course: Flora y Vegetación
Professional category: Formación Personal Investigador
Type of teaching: Laboratory work
Type of subject: Obligatory
University degree: Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide
Course given: 3º

**Start date:** 28/01/2020**End date:** 15/05/2020**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 3,15**Entity:** Universidad Pablo de Olavide**Type of entity:** University**5 Type of teaching:** Official teaching**Name of the course:** Recursos animales y vegetales en Biotecnología**Professional category:** Formación Personal Investigador**Type of teaching:** Laboratory work**Type of subject:** Optional**University degree:** Graduado o Graduada en Biotecnología por la Universidad Pablo de Olavide**Course given:** 2º**Start date:** 13/02/2020**End date:** 27/02/2020**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 0,6**Entity:** Universidad Pablo de Olavide**Type of entity:** University**6 Type of teaching:** Official teaching**Name of the course:** Gestión, Conservación y Explotación de Recursos Vegetales**Professional category:** Formación Personal Investigador**Type of teaching:** Laboratory work**Type of subject:** Obligatory**University degree:** Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide**Course given:** 3º**Start date:** 16/10/2019**End date:** 15/11/2019**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 2,25**Entity:** Universidad Pablo de Olavide**Type of entity:** University**7 Type of teaching:** Official teaching**Name of the course:** Biorremediación y restauración**Professional category:** Formación Personal Investigador**Type of teaching:** Practical work (classroom-problems)**Type of subject:** Obligatory**University degree:** Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide**Course given:** 3º**Start date:** 28/01/2019**End date:** 17/05/2019**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 0,9**Entity:** Universidad Pablo de Olavide**Type of entity:** University**8 Type of teaching:** Official teaching**Name of the course:** Especies y Formaciones Vegetales Amenazadas en la Península Ibérica**Professional category:** Formación Personal Investigador**Type of teaching:** Laboratory work**Type of subject:** Optional**University degree:** Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide**Course given:** 4º**Start date:** 28/01/2019**End date:** 17/05/2019**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 1

**Entity:** Universidad Pablo de Olavide**Type of entity:** University**9 Type of teaching:** Official teaching**Name of the course:** Flora y Vegetación**Professional category:** Formación Personal Investigador**Type of teaching:** Laboratory work**Type of subject:** Obligatory**University degree:** Graduado o Graduada en Ciencias Ambientales por la Universidad Pablo de Olavide**Course given:** 3º**Start date:** 28/01/2019**End date:** 17/05/2019**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 3,2**Entity:** Universidad Pablo de Olavide**Type of entity:** University**10 Type of teaching:** Official teaching**Name of the course:** Recursos animales y vegetales en Biotecnología**Professional category:** Formación Personal Investigador**Type of teaching:** Laboratory work**Type of subject:** Optional**University degree:** Graduado o Graduada en Biotecnología por la Universidad Pablo de Olavide**Course given:** 2º**Start date:** 28/01/2019**End date:** 17/05/2019**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 0,9**Entity:** Universidad Pablo de Olavide**Type of entity:** University**Experience supervising doctoral thesis and/or final year projects****Project title:** Análisis morfométrico de *Carex burkei*, *C. basutorum*, *C. distincta* y *C. killickii***Type of project:** End of course project**Co-director of thesis:** Luceño, M.; Márquez-Corro, J.I.**Entity:** Universidad Pablo de Olavide**Type of entity:** University**Student:** Samuel Sánchez Farfán de los Godos**Date of reading:** 11/2016

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Secuenciación genómica como herramienta para el estudio de la evolución y la biodiversidad vegetal en el megadiverso género Carex (Cyperaceae)

Degree of contribution: Researcher

Entity where project took place: Universidad Pablo de Olavide **Type of entity:** University

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Modesto Luceño Garcés; Santiago Martín Bravo

Type of participation: Team member

Name of the programme: MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

Code according to the funding entity: CGL2016-77401-P

Start-End date: 30/12/2016 - 29/12/2019

Duration: 3 years

Total amount: 105.300 €

- 2** **Name of the project:** Exploring plant evolutionary radiations. A comparative approach using the Gondwanan Disjunction America-New Zealand in Carex (DANZ)

Degree of contribution: Researcher

Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Pedro Jiménez-Mejías; Santiago Martín-Bravo

Nº of researchers: 21

Type of participation: Team member

Start date: 01/10/2021

Duration: 3 years

Total amount: 183.073 €

- 3** **Name of the project:** Macondo: génesis de biodiversidad en escenarios de cambio climático

Degree of contribution: Researcher

Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Pedro Jiménez-Mejías

Nº of researchers: 10

Type of participation: Team member

Name of the programme: Ayudas a proyectos de I+D para jóvenes investigadores de la Universidad Autónoma de Madrid

Code according to the funding entity: SI1/PJI/2019-00333

Start date: 01/01/2020

Duration: 2 years

Total amount: 48.000 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Modesto Luceño; Tamara Villaverde; José Ignacio Márquez-Corro; Rogelio Sánchez-Villegas; Enrique Maguilla; Marcial Escudero; Pedro Jiménez-Mejías; Manuel Sánchez-Villegas; Mónica Míguez; Carmen Benítez-Benítez; AM Muasya; Santiago Martín-Bravo. An integrative monograph of *Carex* section *Schoenoxiphium* (Cyperaceae). *PeerJ*. 9, pp. e11336. 17/05/2021.
DOI: 10.7717/peerj.11336
Type of production: Scientific paper
Position of signature: 3
Corresponding author: No
- 2** Pedro Jiménez-Mejías; Santiago Martín-Bravo; José Ignacio Márquez-Corro; Sabina Donadío; Eric H Roalson; Rob Naczi. A synopsis of the androgynous species of *Carex* subgenus *Vignea* (Cyperaceae) in South America. *Botanical Journal of the Linnean Society*. 196 - 2, pp. 188 - 220. 26/03/2021.
DOI: 10.1093/botlinnean/boaa100
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 6
Corresponding author: No
- 3** Eric H Roalson; Pedro Jiménez-Mejías; Andrew L Hipp; Carmen Benítez-Benítez; Leo P Bruederle; Kyong-Sook Chung; Marcial Escudero; Bruce A Ford; Kerry Ford; Sebastian Gebauer; Berit Gehrke; Marlene Hahn; Muhammad Qasim Hayat; Mathias H Hoffmann; Xiao-Feng Jin; Sangtae Kim; Isabel Larridon; Étienne Lévillé-Bourret; Yi-Fei Lu; Modesto Luceño; Enrique Maguilla; José Ignacio Márquez-Corro; Santiago Martín-Bravo; Tomomi Masaki; Mónica Míguez; Robert FC Naczi; Anton A Reznicek; Daniel Spalink; Julian R Starr; Uzma; Tamara Villaverde; Marcia J Waterway; Karen L Wilson; Shuren Zhang. A framework infrageneric classification of *Carex* (Cyperaceae) and its organizing principles. *Journal of Systematics and Evolution*. 59 - 4, pp. 726 - 762. *J Syst Evol*, 31/01/2021.
DOI: 10.1111/jse.12722.
Type of production: Scientific paper
Format: Journal
Position of signature: 22
Total no. authors: 34
Corresponding author: No
- 4** Isabel Larridon; A Zuntini; É Lévillé-Bourret; RL Barrett; J Starr; MA Muasya; Tamara Villaverde; K Bauters; G Brewer; J Bruhl; S Costa; T Elliott; N Epiawalage; Marcial Escudero; I Fairlie; Paul Goetghebeur; Andrew L Hipp; Pedro Jiménez-Mejías; I Sabino Kikuchi; Modesto Luceño; José Ignacio Márquez-Corro; Santiago Martín-Bravo; O Maurin; L Pokorny; EH Roalson; I Semmouri; D Simpson; D Spalink; W Thomas; K Wilson; M Xanthos; F Forest; W Baker. A new classification of Cyperaceae (Poales) supported by phylogenomic data. *Journal of Systematic and Evolution*. 59 - 4, pp. 852 - 895. 31/01/2021.
DOI: 10.1111/jse.12757
Type of production: Scientific paper
Format: Journal
Position of signature: 21
Total no. authors: 33
Corresponding author: No

- 5** José Ignacio Márquez-Corro; Santiago Martín-Bravo; Pedro Jiménez-Mejías; Andrew L Hipp; Daniel Spalink; Robert FC Naczi; Eric H Roalson; Modesto Luceño; Marcial Escudero. Macroevolutionary insights in sedges (Carex: Cyperaceae): The effects of rapid chromosome number evolution on lineage diversification. *Journal of Systematics and Evolution*. 59 - 4, pp. 776 - 790. *J Syst Evol*, 31/01/2021.
DOI: 10.1111/jse.12730
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 9
Corresponding author: Yes
- 6** Isabel Larridon; Daniel Spalink; Pedro Jiménez-Mejías; José Ignacio Márquez-Corro; Santiago Martín-Bravo; Muthama Muasya; Marcial Escudero. The evolutionary history of sedges (Cyperaceae) in Madagascar. *Journal of Biogeography*. 48 - 4, pp. 917 - 932. 06/01/2021.
DOI: 10.1111/jbi.14048
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 7
Corresponding author: No
- 7** José Ignacio Márquez-Corro; Pedro Jiménez-Mejías; Nicholas Alexander Helme; Modesto Luceño; Santiago Martín-Bravo. The systematic position of the enigmatic rare South African endemic *Carex acocksii*: Its relevance on the biogeography and evolution of *Carex* sect. *Schoenoxiphium* (Cyperaceae). *South African Journal of Botany*. 131, pp. 475 - 483. 01/07/2020.
DOI: 10.1016/j.sajb.2020.03.027
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 8** José Ignacio Márquez-Corro; Santiago Martín-Bravo. *Carex acocksii*. The IUCN Red List of Threatened Species. pp. e.T163344043A167071571. 13/04/2020.
DOI: 10.2305/IUCN.UK.2020-2.RLTS.T163344043A167071571.en
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 2
Relevant publication: No
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 9** Rogelio Sánchez-Villegas; Manuel Sánchez-Villegas; José Luis Robles Fernández; Cecilia Sánchez Benz; Lea Sánchez Benz; Blanca Martín-García; Ramón Román Hernández; Miguel Ángel Valduciel García; José Ignacio Márquez-Corro; Juan Carlos Rico Jiménez; Luis Fernando Estévez Rodríguez; Esteban Sánchez-Amador; Francisco Javier De Sande Velicia; Pablo Marín Martín; Enrique Rico Hernández; Modesto Luceño. Novedades corológicas para la flora vascular de la sierra de Gredos (Sistema Central, España). *Flora Montiberica*. 75, pp. 101 - 110. 11/11/2019. ISSN 1138-5952
eISSN: 1988-799X
Type of production: Scientific paper
Position of signature: 9
Total no. authors: 16
Corresponding author: No
- 10** Santiago Martín-Bravo; Pedro Jiménez-Mejías; Tamara Villaverde; Marcial Escudero; Marlene Hahn; Daniel Spalink; Eric H Roalson; Andrew L Hipp; Carmen Benítez-Benítez; Leo P Bruederle; Elisabeth Fitzek; Bruce A Ford; Kerry A Ford; Mira Garner; Sebastian Gebauer; Matthias H Hoffmann; Jin Xiao-Feng; Isabel Larridon; Étienne Léveillé-Bourret; Yi-Fei Lu; Modesto Luceño; Enrique Maguilla; José Ignacio Márquez-Corro; Mónica Míguez; Robert Naczi; Anton A Reznicek; Julian R Starr. A tale of worldwide success: Behind the scenes of *Carex*



(Cyperaceae) biogeography and diversification. *Journal of Systematics and Evolution*. 57 - 6, pp. 695 - 718. 11/2019.

DOI: 10.1111/jse.12549

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 11** José Ignacio Márquez-Corro; Santiago Martín-Bravo; Daniel Spalink; Modesto Luceño; Marcial Escudero. Inferring hypothesis-based transitions in clade-specific models of chromosome number evolution in sedges (Cyperaceae). *Molecular Phylogenetics and Evolution*. 135, pp. 203 - 209. 03/2019.

DOI: 10.1016/j.ympev.2019.03.006

Type of production: Scientific paper

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 5

- 12** José Ignacio Márquez-Corro; Modesto Luceño; Pedro Jiménez-Mejías; Marcial Escudero; Santiago Martín-Bravo; Andrew L. Hipp; Kyong-Sook Chung; Muthama Muasya; Paul E. Rothrock; Jaime E. Weber; Robert Naczi. Cyperaceae. In: Marhold, K. & Kucera, J. (eds.), IAPT/IOPB chromosome data 28. *Taxon*. 67 - 6, pp. 1240 - 1242. International Association for Plant Taxonomy, 12/2018.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Corresponding author: Yes

Total no. authors: 11

- 13** José Ignacio Márquez Corro; Marcial Escudero; Modesto Luceño. Do holocentric chromosomes represent an evolutionary advantage? A study of paired analyses of diversification rates of lineages with holocentric chromosomes and their monocentric closest relatives. *Chromosome Research*. 26 - 3, pp. 139 - 152. 17/09/2018. Available on-line at: <<https://doi.org/10.1007/s10577-017-9566-8>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 3

- 14** Luceño, M.; Cerrejón, C.; Guerra-Cárdenas, S.; Márquez-Corro, J.I.; Pineda-Labela, V.; Martín-Bravo, S.; Infante, M.; Muñoz, J.. A Contribution to the Knowledge of Bryophytes from Sierra de Gredos (Central Spain) including a Reevaluation of Their National Conservation Status. *Cryptogamie, Bryologie*. 38 - 3, pp. 281 - 302. 2017.

DOI: 10.7872/cryb/v38.iss3.2017.281

Type of production: Scientific paper

Format: Journal

Position of signature: 4

Corresponding author: No

Total no. authors: 8

- 15** J.I. Márquez-Corro; M. Escudero; S. Martín-Bravo; T. Villaverde; M. Luceño. Long-distance dispersal explains the bipolar disjunction in *Carex macloviana*. *American Journal of Botany*. 104 - 5, pp. 663 - 673. 2017.

DOI: 10.3732/ajb.1700012

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Corresponding author: Yes

Total no. authors: 5

- 16** T. Villaverde; E. Maguilla; M. Escudero; J.I. Márquez-Corro; P. Jiménez-Mejías; B. Gehrke; S. Martín-Bravo; M. Luceño. New insights into the systematics of the Schoenoxiphium clade (*Carex*, Cyperaceae). *International Journal of Plant Sciences*. 178 - 4, pp. 320 - 329. 2017.

DOI: 10.1086/691144

Type of production: Scientific paper

Format: Journal

Position of signature: 4

Total no. authors: 8**Corresponding author: No**

- 17** Modesto Luceño; José Ignacio Márquez-Corro; Samuel Guerra-Cárdenas; Rogelio Sánchez-Villegas; Ismael Jurado-Castillo; Eva Rodríguez-Velasco; Juan Carlos Rodríguez-Escobar; Manuel Sánchez-Villegas; Carlos Cerrejón; Fernando Estévez-Rodríguez; Jesús Muñoz. Novedades para la brioflora de la Sierra de Gredos (Sistema Central, España), con especial énfasis en la comunidad de Extremadura. Acta Botanica Malacitana. 42 - 2, pp. 195 - 202. 2017.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 11**Corresponding author:** No

- 18** Montserrat Arista; Juan Arroyo; Regina Berjano; Vania Jiménez-Lobato; Javier Jiménez-López; Lloret, F.; López-Jurado, J.; José Ignacio Márquez Corro; Olmedo-Vicente, E.; Rodríguez-Castaneda, N.L.; Sánchez, M.; Simón-Porcar, V.I.; Vilà-Planella, M.; Picó, F.X.. Present and future of ecological and evolutionary research in Mediterranean-type ecosystems: Conclusions from the last International Mediterranean Ecosystems Conference. American Journal of Botany. 104 - 12, pp. 1777 - 1782. 2017.

DOI: 10.3732/ajb.1700367**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 8**Total no. authors:** 14**Corresponding author:** No

- 19** J.I. Márquez-Corro; E. Maguilla; T. Villaverde; S. Martín-Bravo; M. Luceño. Two new species in Carex sect. Schoenoxiphium (Cyperaceae) from Southern Africa. Phytotaxa. 178 - 4, pp. 320 - 329. 2017.

DOI: 10.11646/phytotaxa.303.1.2**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 5**Corresponding author:** Yes

- 20** Luceño, M.; Cerrejón, C.; Guerra-Cárdenas, S.; Márquez-Corro, J.I.; Pineda-Labela, V.; Infante, M.; Muñoz, J.. Novedades para la brioflora de la Sierra de Gredos (Sistema Central, España). Boletín de la Sociedad Española de Briología. 46-47, pp. 43 - 68. 2016.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 7**Corresponding author:** No

- 21** M. Escudero; J.I. Márquez-Corro; A.L. Hipp. The Phylogenetic Origins and Evolutionary History of Holocentric Chromosomes. Systematic Botany. 41 - 3, pp. 580 - 585. 2016.

DOI: 10.1600/036364416X692442**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 3**Corresponding author:** No

- 22** José Ignacio Márquez-Corro; Santiago Martín-Bravo; Andrea Pedrosa-Harand; Andrew L Hipp; Modesto Luceño; Marcial Escudero. Karyotype Evolution in Holocentric Organisms. eLS. pp. 1 - 7. John Wiley & Sons, Ltd, 15/10/2019. Available on-line at: <<http://www.els.net/WileyCDA/ElsArticle/refId-a0028758.html>>.

DOI: 10.1002/9780470015902.a0028758**Type of production:** Book chapter**Format:** Book**Position of signature:** 1**Degree of contribution:** Author or co-author of chapter in book**Total no. authors:** 6**Corresponding author:** Yes



- 23** Modesto Luceño; Santiago Martín-Bravo; Rogelio Sánchez-Villegas; Marcial Escudero; Manuel Sánchez-Villegas; José Ignacio Márquez-Corro; Íñigo Pulgar Sañudo. Plantas silvestres y ornamentales del campus de la Universidad Pablo de Olavide. pp. 448. Sevilla, Andalusia(Spain): Fundación Universidad Pablo de Olavide, 17/01/2019. ISBN 978-84-949948-0-7

Legal deposit: SE 217-2019

Type of production: Popular science book

Position of signature: 6

Format: Book

Degree of contribution: Author or co-author of entire book

Total no. authors: 7

Works submitted to national or international conferences

- 1** **Title of the work:** Genome-based phylogeny reveals intricate taxonomic, chromosomal and phylogeographical patterns in a Western Palearctic lineage of *Carex* (Cyperaceae)
Name of the conference: I Congreso de la Sociedad Española de Botánica
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Toledo, Castile-La Mancha, Spain
Date of event: 07/09/2021
End date: 10/09/2021
Organising entity: Sociedad Botánica Española **Type of entity:** Federación
City organizing entity: Toledo, Spain
With external admission assessment committee: Yes
 José Ignacio Márquez Corro; Santiago Martín Bravo; Modesto Luceño; Marcial Escudero.
- 2** **Title of the work:** A phylogenomic framework for the study of the role of chromosome number variation in species microevolution (*Carex* gr. *laevigata*, Cyperaceae)
Name of the conference: I Simposio Anual de Botánica Española
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Sevilla, Andalusia, Spain
Date of event: 07/02/2020
End date: 08/02/2020
Organising entity: Sociedad Botánica Española
City organizing entity: Sevilla, Spain
With external admission assessment committee: Yes
 José Ignacio Márquez Corro; Santiago Martín Bravo; Modesto Luceño; Marcial Escudero.
- 3** **Title of the work:** A phylogenomic framework for the study of the role of chromosome number variation in species microevolution (*Carex* gr. *laevigata*, Cyperaceae)
Name of the conference: VII congreso bianual de la Sociedad Española de Biología Evolutiva
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Sevilla, Andalusia, Spain
Date of event: 05/02/2020
End date: 07/02/2020
Organising entity: Sociedad Española de Biología Evolutiva
City organizing entity: Sevilla, Spain



With external admission assessment committee: Yes

José Ignacio Márquez Corro; Santiago Martín Bravo; Modesto Luceño; Marcial Escudero.

- 4** **Title of the work:** Origins and diversification of Cyperaceae in Madagascar
Name of the conference: 56th Annual Association for Tropical Biology and Conservation (ATBC)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Antananarivo, Madagascar
Date of event: 30/07/2019
End date: 03/08/2019
Organising entity: Association for Tropical Biology and Conservation (ATBC)
City organizing entity: Antananarivo, Madagascar
Isabel Larridon; Daniel Spalink; Pedro Jiménez-Mejías; José Ignacio Márquez Corro; Santiago Martín-Bravo; Marcial Escudero.
- 5** **Title of the work:** A phylogeographic study of the influence of chromosome number variation in the microevolution of species (*Carex* gr. *laevigata*, Cyperaceae)
Name of the conference: 9th Biennial Conference of the International Biogeography Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Málaga, Andalusia, Spain
Date of event: 08/01/2019
End date: 12/01/2019
Organising entity: International Biogeography Society
City organizing entity: Málaga, Spain
With external admission assessment committee: Yes
José Ignacio Márquez Corro; Marcial Escudero; Santiago Martín Bravo; Modesto Luceño.
- 6** **Title of the work:** *Carex* (Cyperaceae) in South America: diversity, phylogenetics and biogeography of a Boreotemperate element in the Neotropics
Name of the conference: 6th International Conference on Comparative Biology of Monocotyledons – MONOCOTS VI
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Natal, Brazil
Date of event: 07/10/2018
End date: 12/10/2018
Organising entity: Universidade Federal do Rio Grande do Norte **Type of entity:** University
City organizing entity: Natal, Brazil
With external admission assessment committee: Yes
Pedro Jiménez Mejías; Carmen Benítez Benítez; Hamilton Beltrán; Asunción Cano; Sabina Donadío; Marcial Escudero; Sebastian Gebauer; Andrew Hipp; Mónica Míguez; Robert Naczi; Anton Reznicek; Eric Roalson; José Ignacio Márquez Corro; Tamara Villaverde; Laurence Dorr; Santiago Martín Bravo; Modesto Luceño. En: *Carex* (Cyperaceae) in South America: diversity, phylogenetics and biogeography of a Boreotemperate element in the Neotropics.

7 Title of the work: Holocentric chromosome evolution and its impact in diversification, with special emphasis in sedges (Cyperaceae)

Name of the conference: 6th International Conference on Comparative Biology of Monocotyledons – MONOCOTS VI

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Natal, Brazil

Date of event: 07/10/2018

End date: 12/10/2018

Organising entity: Universidade Federal do Rio Grande do Norte

Type of entity: University

City organizing entity: Natal, Brazil

With external admission assessment committee: Yes

José Ignacio Márquez Corro; Marcial Escudero; Pedro Jiménez Mejías; Santiago Martín Bravo; Modesto Luceño.

8 Title of the work: Long-distance dispersal explains the bipolar disjunction in *Carex macloviana* (sect. Ouales, Cyperaceae)

Name of the conference: XIV MEDECOS & XIII AEET meeting

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Open access

Corresponding author: Yes

City of event: Sevilla, Andalusia, Spain

Date of event: 01/02/2017

End date: 03/02/2017

Organising entity: Universidad de Sevilla & Asociación Española de Ecología Terrestre

City organizing entity: Spain

Publication in conference proceedings: Yes

Type of contribution: Scientific paper

Márquez-Corro, J.I.; Escudero, M.; Martín-Bravo, S.; Villaverde, T.; Luceño, M.02/02/2017.

9 Title of the work: Long-distance dispersal explains the bipolar disjunction in *Carex macloviana* (sect. Ouales, Cyperaceae)

Name of the conference: IX Congreso Español de Biogeografía

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

Reasons for participation: Open access

Corresponding author: Yes

City of event: Algeciras, Andalusia, Spain

Date of event: 07/06/2016

End date: 10/06/2016

Organising entity: Universidad de Granada

Type of entity: University

City organizing entity: Spain

Publication in conference proceedings: Yes

Type of contribution: Scientific paper

Márquez-Corro, J.I.; Escudero, M.; Martín-Bravo, S.; Villaverde, T.; Luceño, M.02/02/2017.

10 Title of the work: Kept in shape: fossil remains identification through the phylogenetic signal detected in the outline of extant species. A case study in *Carex* (Cyperaceae)

Name of the conference: Modern Phylogenetic Comparative Methods

Type of event: Conference

Reasons for participation: Open access



Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Sevilla, Andalusia, Spain

Date of event: 11/11/2014

End date: 15/11/2014

Organising entity: Estación Biológica de Doñana & Universidad de Sevilla

City organizing entity: Sevilla, Andalusia, Spain

Villaverde, T.; Varón-González, C.; Márquez-Corro, J.I.; Luceño, M.; Martín-Bravo, S.; Martinetto, E.; Jiménez-Mejías, P. 13/11/2014.

R&D management and participation in scientific committees

Organization of R&D activities

- 1 **Title of the activity:** I Biomaratón de Flora Española
Geographical area: National
Convening entity: Sociedad Española de Botánica **Type of entity:** Associations and Groups
City convening entity: Spain
Type of participation: Organiser
Start-End date: 21/05/2021 - 23/05/2021 **Duration:** 3 days
- 2 **Title of the activity:** Biomaratón de Flora en la UAM
Geographical area: Regional
City of event: Madrid, Community of Madrid, Spain
Convening entity: Universidad Autónoma de Madrid **Type of entity:** University
City convening entity: Community of Madrid, Spain
Type of participation: Organiser
Start-End date: 22/05/2021 - 22/05/2021 **Duration:** 1 day
- 3 **Title of the activity:** iNaturalist, una iniciativa de ciencia ciudadana para inventariar biodiversidad. Experiencias desde la UPO.
Type of activity: Feria de las Ciencias 2021
Convening entity: Universidad Pablo de Olavide **Type of entity:** University
City convening entity: Sevilla, Andalusia, Spain
Type of participation: Organiser
Start-End date: 18/05/2021 - 20/05/2021 **Duration:** 3 days

Evaluation and revision of R&D projects and articles

- 1 **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: PlosONE (Q1)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 17/05/2021 - 17/05/2021
- 2 **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: Journal of Systematics and Evolution (Q1)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 24/04/2021 - 24/04/2021

- 3** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: Phytotaxa (Q2)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 07/09/2020 - 07/09/2020
- 4** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: PlosONE (Q1)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 05/07/2020 - 05/07/2020
- 5** **Name of the activity:** Revisor de IUCN - Carex badilloi
Performed tasks: Revisor de la IUCN
Entity where activity was carried out: IUCN: International Union for Conservation of Nature
Type of entity: Unión Internacional
Start-End date: 16/06/2020 - 16/06/2020
- 6** **Name of the activity:** Revisor de IUCN - Carex parvirufa
Performed tasks: Revisor de la IUCN
Entity where activity was carried out: IUCN: International Union for Conservation of Nature
Type of entity: Unión internacional
Start-End date: 16/06/2020 - 16/06/2020
- 7** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: PeerJ (Q1)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 23/04/2020 - 23/04/2020
- 8** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: Phytotaxa (Q2)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 21/04/2020 - 21/04/2020
- 9** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: New Phytologist (Q1)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 10/03/2020 - 10/03/2020
- 10** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: Phytotaxa (Q2)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 16/12/2019 - 16/12/2019
- 11** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: Phytotaxa (Q2)
Type of activity: Review of articles in scientific or technological journals
Start-End date: 21/05/2019 - 21/05/2019
- 12** **Performed tasks:** Revisión de artículo científico
Entity where activity was carried out: Phytotaxa (Q2)
Type of activity: Review of articles in scientific or technological journals



Start-End date: 23/01/2019 - 23/01/2019

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Biológicas
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 04/05/2021 - 11/06/2021 **Duration:** 38 days
Goals of the stay: Doctorate
Provable tasks: Estudios taxonómicos y sistemáticos del género Carex en Sudamérica
- 2** **Entity:** Universidade de Coimbra **Type of entity:** University
Faculty, institute or centre: Department of Life Sciences
City of entity: Coimbra, Centro (P), Portugal
Start-End date: 15/03/2021 - 15/04/2021 **Duration:** 31 days
Goals of the stay: Doctorate
Provable tasks: Evolución del tamaño genómico en Carex sect. Schoenoxiphium
- 3** **Entity:** Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Biológicas
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 22/02/2021 - 08/03/2021 **Duration:** 14 days
Goals of the stay: Doctorate
Provable tasks: Estudios taxonómicos y sistemáticos del género Carex en Sudamérica
- 4** **Entity:** Universidade Federal de Pernambuco **Type of entity:** University
Faculty, institute or centre: Centro de Biociências
City of entity: Recife, Brazil
Start-End date: 13/10/2018 - 13/12/2018 **Duration:** 2 months
Goals of the stay: Doctorate
Provable tasks: Estudios citogenéticos en Carex helodes y Carex scoparia. Aprendizaje en técnicas de FISH e Inmunocitogenética

Obtained grants and scholarships

- 1** **Name of the grant:** Modalidad B.5 Becas de Iniciación a la Investigación del IV Plan Propio de investigación (Ref. PPI1308)
Aims: Iniciación a la Investigación
Awarding entity: Universidad Pablo de Olavide **Type of entity:** University
Amount of the grant: 900 €
Conferral date: 17/02/2014 **Duration:** 5 months
End date: 17/06/2014
- 2** **Name of the grant:** Ayudas para doctorandos/as destinadas para cubrir gastos para la mejora cualitativa en el desarrollo de sus tesis doctorales
Aims: Iniciación a la Investigación



Awarding entity: Universidad Pablo de Olavide

Type of entity: University

Amount of the grant: 200 €

Conferral date: 2016

Summary of other achievements

- 1** **Description of the achievement:** Contributor IUCN - Carex badilloi & Carex parvirufa
Accrediting entity: IUCN: International Union for Conservation of Nature
Conferral date: 16/06/2020
- 2** **Description of the achievement:** Colaboración como voluntario en el congreso nacional "I Simposio Anual de Botánica Española (SEBOT I)"
Accrediting entity: Sociedad Botánica Española
City accrediting entity: Spain
Conferral date: 08/02/2020
- 3** **Description of the achievement:** Colaboración como voluntario en el "VII congreso bianual de la Sociedad Española de Biología Evolutiva (SESBE VII)"
Accrediting entity: Sociedad Española de Biología Evolutiva
City accrediting entity: Spain
Conferral date: 07/02/2020
Type of entity: Associations and Groups
- 4** **Description of the achievement:** Colaboración como voluntario en el congreso internacional "XIV MEDECOS & XIII AEET meeting"
Accrediting entity: Universidad de Sevilla
City accrediting entity: Sevilla, Andalusia, Spain
Conferral date: 03/02/2017
Type of entity: University