

CARLOS LARA-ROMERO

Curriculum vitae. October 1st 2019

PERSONAL INFORMATION

Place and date of birth	30 th July 1983, Madrid (SPAIN)	National Identification Document: 53447757N
Researcher numbers	Orcid code	0000-0003-0962-0567
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	Universidad Rey Juan Carlos. Laboratorios Polivalentes III, Despacho 202, 28933, Móstoles, SPAIN	

SUMMARY

I am a Postdoctoral researcher in the AdAptA-Lab (Rey Juan Carlos University, Spain). I completed my undergraduate studies and Master's degree in Environmental Science at Rey Juan Carlos University (URJC, Móstoles, Spain) in 2008 and 2009, respectively. I received my PhD in Natural Resources Conservation at the URJC in 2014, being awarded with the Extraordinary Doctoral Thesis Award. Subsequently, I worked as a postdoctoral researcher at the Institute of Integrative Biology at ETH Zurich, at the Technical Particular University of Loja, Ecuador. In 2016 I was awarded a "Juan de la Cierva - Formación" Fellowship at the IMEDEA-CSIC. I have more than 50 months of postdoctoral experience at the national and international levels. I focus my research on plant adaptation as a response to climate change, reproductive biology and ecological interactions. I apply an integrative approach that combines population genetics and genomics, spatial statistics and complex network analysis. I have published 24 research articles in SCI indexed journals and a total of 35 articles in scientific journals, books and book chapters. My current h-index is 10 (i10-index = 12) with a total number of 261 citations as of Google Scholar. The total number of scientific articles in the first quartile (Q1) of the journal ranks is 14 in Web of Science. I have participated in 13 research projects 7 at the national level (5 projects of the Spanish National Plan for RD&I) and 6 at the international level within the Framework Programs of the European Union and other foreign research programs. I have obtained 4 research fellowships (2 postdoctoral), 7 travel grants (3 postdoctoral) and 4 conference and workshop grants, which amounted to a total of approximately 170 000 €. I have participated in the organization of 8 R&D activities (congresses, courses, etc.) At the International I am a partner of the GrENE-net Consortium, which counts with the participation of more than 90 researchers of 40 institutions. I am assuming key responsibilities in a research projects from Horizon 2020, the EU Framework Programme for Research and Innovation. I have carried out 7 stays in worldwide recognized research centres for a total of 27 months. I have participated as a regular reviewer in international journals, such as Molecular Ecology, Scientific Reports, Biology Letters or Plant Biology.

EDUCATION

Ph.D. in Natural Resources Conservation, Universidad Rey Juan Carlos (URJC, Spain), 2014*

*Extraordinary Award for Ph.D., URJC, Spain, 2017.

M.S. in Science and Environmental Technology, URJC, Spain, 2009

B.S. in Environmental Science, URJC, Spain, 2008

POSITIONS HELD

2019-Present. **Postdoctoral researcher**, Biodiversity and Conservation Area, Rey Juan Carlos University (URJC), Madrid, Spain.

2017- 2019. **Postdoctoral research fellow (Juan de la Cierva)**, Mediterranean Institute for Advanced Studies (IMEDEA), Spanish National Research Council (CSIC), Balearic Island, Spain.

2016. **Postdoctoral researcher**, Technical Particular University of Loja (UTPL), Natural Science Department, Ecuador.

2015-2016. **Postdoctoral researcher**, Biodiversity and Conservation Area, Rey Juan Carlos University (URJC), Madrid, Spain.

2015. **Visiting postdoctoral researcher** (ESF Grant), Swiss Federal Institutes of Technology (ETH), Zurich, Switzerland.

2010-2014. **Predoctoral research fellow**, Biodiversity and Conservation Area, URJC, Madrid, Spain.

2010. **Predoctoral researcher**, AGRI GENRES 057 (AEGRO) project, Biodiversity and Conservation Area, URJC, Madrid, Spain.

2007-2008. **Assistant Scholar**, Biodiversity and Conservation Area, URJC, Madrid.

STAYS IN RESEARCH CENTRES

1. Oct 2018 – Feb 2019 (6 months, postdoctoral*). INRA-University Bordeaux, BIOGECO (with Santiago González-Martínez).
Relevant results: Lara-Romero C; González-Martínez SC, Irondo JM 2019. Assessing diversity patterns of potential adaptive value in Alpine plants. Manuscript under preparation
*Stay funded by LabEX COTE Excellence Programme & Jose Castillejo mobility grant
2. Feb 2014 – April 2014 (3 months, predoctoral). **Research Center in Biodiversity and Genetic Resources (CIBIO/InBio), Portugal** (with Cristina Garcia).
Relevant results: Lara-Romero et al 2016. Functional Ecology, 30: 1521-1530.
3. Oct 2012 – Dic 2013 (3 months, predoctoral). **Swiss Federal Institutes of Technology (ETH)**, Institute of Integrative Biology, **Zurich, Switzerland** (with Alex Widmer).
Relevant results: Lara-Romero et al 2016. Heredity, 116: 417-423.
4. Nov 2012 - Dic 2012. (2 months, predoctoral). Evolutionary biology Center, **Uppsala University, Sweden** (with Jon Agren).
Relevant results: Lara-Romero et al 2014. Bot J Linn Soc, 176: 284 - 395.
5. Oct 2011 – Dic 2011 (3 months, predoctoral). **Swiss Federal Institutes of Technology (ETH)**, Institute of Integrative Biology, **Zurich, Switzerland** (with Alex Widmer).
Relevant results: García-Fernández et al 2012. American Journal of Botany, 99: 292 - 294.

PARTICIPATION RESEARCH PROJECTS

Participation in projects funded through competitive calls

1. Project title: Effects of global change on small island trophic meta-networks (ISLET-FOODWEBS: CGL2017-88122-P)
Entity: Mediterranean Institute for Advanced Studies (IMEDEA-CSIC), Spain. Principal Investigator: Anna Traveset.
Funding: European Commission.
Duration: 2018 – 2020. Total amount: 193 600 €.
2. Project title: Assisted evolution of flowering time as a response to climate change (EVA: CGL2016-77377).
Entity: Rey Juan Carlos University, Spain. Principal investigator: Jose M. Iriondo.
Funding: Spanish Ministry of Economy and competitiveness (MINECO).
Duration: 2017 – 2020. Total amount: 165 000 €.
3. Project title: Networking, partnerships and tools to enhance in situ conservation of European plant genetic resources (Farmer's Pride: 774271).
Entity: Rey Juan Carlos University, Spain. Principal Investigator (URJC): Jose M. Iriondo.
Funding: European Commission. H2020-EU.3.2.1.1. programme.
Duration: 2017 – 2020. Total amount: 202.050 €.
4. Project title: Functional connectivity and green infrastructure. (FunGreen: PCIN-2016-077).
Entity: Mediterranean Institute of Advanced Studies (CSIC/UIB), Spain. Principal investigator (CSIC): Anna Traveset.
Funding: European Union (BIODIVERSA PROGRAM- ERANET)
Duration: 2016 – 2019. Total amount: 148 500 €.
5. Project title: Ecological genomics of local adaptation in maritime pine, an iconic conifer with large ecological and economic value in south-western Europe (EcoGenPin)
Entity: French National Institute for Agricultural Research (INRA), IdEx Bordeaux, France.
Principal investigator: Santiago Gonzalez Martinez.
Funding: Agence Nationale de la Recherche (ANR, fr: National Agency for Research).
Duration: 2016 – 2019. Total amount: 198 249 €.
6. Project title: Local adaptation in high-mountain plants: an integrated perspective (AdAptA: CGL2012-44528).
Entity: Rey Juan Carlos University, Spain. Principal investigator: Jose M. Iriondo.
Funding: Spanish Ministry of Economy and competitiveness (MINECO).
Duration: 2013 – 2016. Total amount: 112 000 €.
7. Project title: Modelos y Análisis demográficos para la evaluación de la persistencia y propuestas de manejo de especies leñosas con sus usos maderables y no maderables de las regiones montañosas secas de Ecuador.
Entity: Technical Particular University of Loja, Ecuador. Principal investigator: E. Gusman.
Funding: Technical Particular University of Loja, Ecuador.
Duration: 2014 – 2015. Total amount: 13 770 €.

8. Project title: Who dispersers who? Size-related properties of plant-frugivore interactions in the Tumbesian dry forest.
Entity: Technical Particular University of Loja, Ecuador. Principal investigator: Gema Escribano.
Funding: Technical Particular University of Loja, Ecuador.
Duration: 2015. Total amount: 2 500 €.
9. Project title: Determinants of distribution limits of high-mountain plants and expected responses to global change (LIMITES: CGL2009-07229).
Entity: Rey Juan Carlos University, Spain. Principal investigator: Jose M. Iriondo .
Funding: Spanish Ministry of Economy and competitiveness (MINECO).
Duration: 2010 – 2014. Total amount: 95 000 €.
10. Project title: Calidad del hábitat, conservación del nicho y conservación de mamíferos en un mundo cambiante: una aproximación macrofisiológica (CALCOFIS: CGL2009-13013).
Entity: Rey Juan Carlos University, Spain. Principal investigator: Emilio Virgós.
Funding: Spanish Ministry of Education and Culture (MEC).
Duration: 2010-2012. Total amount: 136 730 €.
11. Project title: An Integrated European in Situ Management Work plan: Implementing Genetic Reserves and On Farm Concepts (AGRI GENRES057: AEGRO).
Entity: Rey Juan Carlos University, Spain. Principal investigator: Jose M. Iriondo
Funding: European Research Council.
Duration: 2007-2010. Total amount: 67 196 €
12. Project title: Efectos de los cambios en los usos del suelo y el clima en la distribución, abundancia y eficacia biológica de tres especies de hábitats templados en el mediterráneo: predicción de escenarios y conservación (CGL2005-07681).
Entity: Rey Juan Carlos University, Spain. Principal investigator: Emilio Virgós.
Funding: Spanish Ministry of Education and Culture (MEC).
Duration: 2006-2008. Total amount: 33 320 €.

Participation in projects funded through non-competitive calls

13. Project title: acuerdo de colaboración entre la Universidad Rey Juan Carlos y la Sociedad Española de Biología de Conservación de Plantas.
Entity: Rey Juan Carlos University, Spain. Principal investigator: José M. Iriondo.
Funding: Sociedad Española de Biología de Conservación de Plantas (SEBICOP).
Duration: 2016-2017. Total amount: 10 409 €.

PUBLICATIONS

Citations: 250, H-Index: 10, i10-index: 11 (as of Google Scholar in September 2019)

* Corresponding author

SCI & Scopus indexed journals

1. **Lara-Romero, C ***; Seguí, J; Pérez-Delgado, A; Nogales, M; Traveset, A. 2019. Beta diversity and specialization in plant-pollinator networks along an elevational gradient. **Journal of Biogeography**, 46: 1598-1610. DOI: 10.1111/jbi.13615. JIF: 3.884 (34/164, Ecology, Q1).
 2. Morente-López, J; Scheepens, J.F; **Lara-Romero, C**; Ruiz-Checa, R; Tabarés, P; Iriondo J.M. Past selection shaped phenological differentiation among populations at contrasting elevations in a Mediterranean alpine plant. **Environmental and Experimental Botany**. *In press*. JIF: 3.712 (29/228, Plant Science, Q1).
 3. Naranjo, C; Iriondo, JM; Riofrío, M; **Lara-Romero, C***. 2019. Evaluating the structure of commensalistic epiphyte-phorophyte networks. A comparative perspective of biotic interactions. **AoB Plants**, 11, pp. plz011. DOI: 10.1093/aobpla/plz011. JIF: 2.27 (77/228, Plant Science, Q2).
 4. Horcajada-Sánchez F;Escribano-Ávila G; **Lara-Romero C**; Virgós E; Barja I. 2019. The effect of livestock on the physiological condition of roe deer, *Capreolus capreolus* (Artiodactyla: Cervidae) is modulated by habitat quality. **Scientific Reports**, *in press*. DOI:10.1038/s41598-019-52290-7. JIF: 4.011 (15/69, Multidisciplinary Science, Q1).
 5. Sacristán-Bajo, S; García-Fernández, A; Iriondo, J; **Lara-Romero, C***. 2019. Transcriptome assembly and polymorphism detection in *Silene ciliata* (Caryophyllaceae). **Plant Genetic Resources**, 17:452-455. JIF: 0.717 (192/228, Plant Sciences, Q4).
 6. Morente-López, J; **Lara-Romero, C***; Ornoy, C; Iriondo, J.M. 2018. Phenology drives species interactions and modularity in a plant - flower visitor network. **Scientific Reports**, 8, pp. 9386. JIF: 4.011 (15/69, Multidisciplinary Science, Q1).
- # J. Morente-López and C. Lara-Romero contributed equally to this publication.*
7. Morente-López, J; García, C; Lara-Romero, C; García-Fernández, A; Draper, D; Iriondo, J. 2018 Geography and environment shapes landscape genetics of Mediterranean alpine species *Silene ciliata* Poiret. (Caryophyllaceae). **Frontiers in Plant Science**, 9:1698. JIF: 4.106 (20/228, Plant Science, Q1).
 8. Iglesias-Merchan, C; Horcajada-Sánchez, F; Diaz-Balteiro, L; Escribano-Ávila, G; Lara-Romero, C; et al. 2018. A new large-scale index (AcED) for assessing traffic noise disturbance on wildlife: stress response in a roe deer (*Capreolus capreolus*) population. **Environmental monitoring and assessment**, 190, 185. DOI: 10.1007/s10661-018-6573-y. JIF: 1.959 (142/252, Environmental Science, Q3).
 9. Giménez-Benavides*, L; Escudero, A; García-Camacho, R; García-Fernández, A; Iriondo, J; **Lara-Romero, C**; Morente, J. 2018. How does climate change affect regeneration of Mediterranean mountain plants? An integration and synthesis of current knowledge. **Plant Biology**, 20: 50-62. JIF: 2.393 (68/228, Plant Science, Q2).
 10. **Lara-Romero, C***; Gusman, E; Ramón, P; Velez, D; Espinosa, C.I. 2017. Does size matter? Ontogenetic responses of an Andean shrub to conspecific density-dependence. **Perspectives in plant Ecology and Evolution (PPES)**, 25: 59-67. JIF: 2.82 (48/223, Plant Science, Q1).

11. **Lara-Romero, C***. 2017. Adjustment, interpretation and presentation of linear models: p-value is not enough. **Ecosistemas** 26: 64-66. JIF not available. Journal indexed in Emerging Source Citation Index (ESCI).
12. **Lara-Romero, C***; García, C; Morente-López, J; Iriondo, J.M. 2016. Direct and indirect effects of shrub encroachment on alpine grasslands mediated by plant-pollinator interactions. **Functional Ecology**, 30: 1521–1530. JIF: 5.63 (14/153, Ecology, Q1).
13. **Lara-Romero, C***; de la Cruz, M; Escribano-Ávila, g; García-Fernández, A; Iriondo, JM. 2016. What causes conspecific plant aggregation? Disentangling the role of dispersal, habitat heterogeneity and plant–plant interactions. **Oikos**, 25: 1304–1313. JIF: 4.03 (29/160, Ecology, Q1).
14. **Lara-Romero, C***; García-Fernández, A; Robledo-Arnuncio, J.J.; Roumet, M; Morente-López, J; López-Gil, A; Iriondo, J.M. 2016. Individual spatial aggregation correlates with between-population variation in fine-scale genetic structure of *Silene ciliata* (Caryophyllaceae). **Heredity**, 116: 417-423. JIF: 3.961 (29/160, Ecology, Q1).
15. García-Fernández, A*; Escudero, A.; **Lara-Romero, C**; Iriondo, J.M. 2015. Effects of the duration of cold stratification on early life stages of the Mediterranean alpine plant *Silene ciliata*. **Plant Biology** 17: 344-350. JIF: 2.216 (60/209, Plant Science, Q2).
16. **Lara-Romero, C***; Garcia-Camacho, R; Escudero, A; Iriondo, J.M. 2014. Genetic variation in flowering phenology and reproductive performance in a Mediterranean high-mountain specialist, *Armeria caespitosa* (Plumbaginaceae). **Botanical Journal of the Linnean Society** 176: 284-395. JIF: 2.534 (54/204, Plant Science, Q2).
17. **Lara-Romero, C***; Robledo-Arnuncio, JJ; García-Fernández, A; Iriondo J.M. 2014. Assessing intraspecific variation in effective dispersal along an altitudinal gradient: a test in two Mediterranean high-mountain plants. **Plos One** 9: e87189. JIF: 3.234 (9/57, Multidisciplinary Sciences, Q1).
18. Isabel C. Barrio*, C. Guillermo Bueno, Laszlo Nagy, Sara Palacio, Oriol Grau, Ignacio Munilla, Maria Begoña Garcia, Ana I. Garcia-Cervigon, Maite Gartzia, Antonio Gazol, Carlos **Lara-Romero** et al., 2013. Alpine ecology in the Iberian Peninsula: what do we know and where should we go? **Mountain Research and Development (MRD)** 33: 437-442. JIF: 0.989 (163/216, Environmental Sciences, Q4).
19. Escribano-Avila, G*; Pettorelli, N; Virgós, E; **Lara-Romero, C**; Lozano, J; Barja, I; Salas, F; Puerta, M. 2013. Testing Cort-Fitness and Cort-Adaptation hypotheses in a habitat suitability gradient for roe deer. **Acta Oecologica** 53: 38-48. JIF: 1.841 (74/141, Ecology, Q3).
20. García-Fernández, A*; **Lara-Romero, C**; Segarra-Moragues, J.J; Iriondo, J.M; Widmer, A; Escudero, A. 2012. Characterization of microsatellites in the mountain plant *Armeria caespitosa* (Plumbaginaceae) and transferability to congeners. **American Journal of Botany** 99: 292-294. JIF: 2.586 (47/197, Plant Science, Q1).
21. **Lara-Romero, C***; Virgós, E; Revilla, E. 2012. Sett density as an estimator of population density in the European badger (*Meles meles*)^a. **Mammal Review** 42: 78-84. JIF: 3.424 (4/151, Zoology, Q1).

^aArticle selected for the Special Issue of Mammal Review on the occasion of the 75th Anniversary of The Wildlife Society.

22. **Lara-Romero, C***; Virgós, E; Escribano, G; Mangas, J. G; Mangas, J. G; Pardavila, X. 2012. Habitat selection by European badgers in mediterranean semi-arid ecosystems. **Journal of Arid Environments** 76: 43-48. JIF: 1.772 (104/210, Environmental Sciences, Q2).
23. Barja, I*; Escribano, G; **Lara-Romero, C**; Virgós, E. 2012. Non-invasive monitoring of adrenocortical activity in European badgers (*Meles meles*) and effects of sample collection and conservation on concentrations of faecal cortisol. **Animal Biology** 62: 419-432. JIF: 0.767 (101/151, Zoology, Q3).
24. **Carlos Lara-Romero***; Isabel Barja; Emilio Virgós; Gema Escribano-Ávila. Evaluating adrenal activity and effects related with the collection and conservation of faecal samples to understand the physiological stress responses of wild European badgers. **Comparative Biochemistry and Physiology, Part A**. 153, pp. S63. 2009. JIF: 2.196 (14/129, Zoology, Q1).

Book chapters

25. Escribano-Ávila, G; **Lara-Romero, C**; Heleno, R; Traveset, A. 2018. Seed dispersal Networks in the Tropics. pp. 93 – 110. In: Ecological Networks in the Tropics. Springer, Berlin, Germany.
26. J. Serrano; M Vicens; **C. Lara-Romero**; JM Iriondo. 2017. *Allium grosii* Font Quer. Atlas y Libro Rojo de la Flora Vascular Amenazada de España - Adenda 2017. pp. 62 - 63. Ministerio de Medio Ambiente.
27. JM Iriondo; R. Rebolé; C. Lara-Romero; ML Rubio; A. García-Fernández. 2017. *Erodium paularense* Fern. Gonz. & Izco. Atlas y Libro Rojo de la Flora Vascular Amenazada de España - Adenda 2017. pp. 36 - 37. Ministerio de Medio Ambiente.
28. A. García-Fernández; R. Rebolé; C. Lara-Romero; S. Prieto; JM Iriondo. *Ranunculus parnassifolius* L. Atlas y Libro Rojo de la Flora Vascular Amenazada de España - Adenda 2017. pp. 124 - 125. Ministerio de Medio Ambiente,
29. Escudero, A; García-Camacho, R. García Fernández, A; Giménez-Benavides, L; Iriondo, JM; **Lara-Romero, C**; Morente, J & Pescador, DS. 2015. *Vulnerabilidad al cambio climático de las plantas de alta montaña mediterránea*. In: Los bosques y la biodiversidad frente al cambio climático: impactos, vulnerabilidad y adaptación en España. Spanish Ministry of Agriculture and Environment, Madrid, Spain.
30. Iriondo, J.M.; Maxted, N.; Kell, S.; Ford-Lloyd, B. & **Lara-Romero, C**, Labokas, J. Brehm, M. 2012. *Identifying quality standards for genetic reserve conservation of CWR*. In: Agrobiodiversity Conservation: Securing the diversity of Crop Wild Relatives and Landraces. CABI BOOKS, London, UK.

Other peer-reviewed journals

31. Escudero, A*; García-Camacho, R; García Fernández, A; Gavilán, R. G.; Giménez-Benavides, L; Iriondo, J.M.; **Lara-Romero, C.**; Morente, J; Pescador, D. S. 2012. Vulnerability to global change in Mediterranean high mountains plants. **Ecosistemas** 21: 63-72.
32. Iriondo, J.M. *; Parra-Quijano, M.; **Lara-Romero, C.**; Carreño, F.; Maxted, N.; Kell, S.; Ford-Lloyd, B.V. 2012. Where and how? Genetic reserve site selection and development of common quality standards. **Crop Wild Relatives** 8: 33-35.

Popular science articles

33. **Lara-Romero, C***, Escribano-Ávila, G., Galeano, J., García-Verdugo, C., Iriondo, J.M., Lázaro, A., Picó, X., Santamaría, S., Seguí, J., Traveset, A. 2018. XV Reunión científica anual de ECOFLOR **Ecosistemas** 27: 132-133.
34. Vicente, R; Carmen, M.A; **Lara-Romero, C**; Iriondo, J.M.; García-Fernández, A. 2017. Restitución de poblaciones como herramienta de conservación en España. **Conservación Vegetal**, 21: 1-4.
35. **Lara-Romero C.**; Virgós, E.; Mangas, J. G.; Barja, I.; Escribano, G. Tejones y hombres, bajo el mismo sol. Quercus, 278. Abril 2009.

GenBank (NCBI) Publications & Sequence Deposits

36. Garcia-Fernandez, A; **Lara-Romero, C**; Segarra-Moragues, J.G; Iriondo, J.M; Widmer, A; Escudero, A. 2012. Polymorphic microsatellite markers for *Armeria caespitosa*.
Accession Numbers: JQ312126.1, JQ312127.1, JQ312128.1, JQ312129.1, JQ312130.1, JQ312131.1, JQ312132.1, JQ312133.1, JQ320378.1, JQ320379.1, JQ320380.1, JQ320381.1, JQ320382.1, JQ320383.1, JQ320384.1, JQ320385.1
37. Sacristán-Bajo, S; García-Fernández, A; Iriondo, J.M; **Lara-Romero, C**. 2019. Transcriptome sequencing and annotation of six *Silene ciliata* individuals.
BioSample accessions: SAMN11250463, SAMN11250464, SAMN11250465, SAMN11250466, SAMN11250467, SAMN11250468.

Manuscript in preparation or submitted to scientific journals

38. **Carlos Lara-Romero**; José Iriondo; Alex Widmer; Santiago González-Martínez. Assessing diversity patterns of potential adaptive value in marginal populations of an Alpine plant.
39. Javier Morente; Jamie Kas; **Carlos Lara-Romero**; Josep Serra; Jose Soto-Correa; Robert P Anderson; José Iriondo. Ecological niche models as hypothesis generators of functional genetic differentiation and potential local adaptation in a Mediterranean alpine ecosystem.
40. Elena Torres; Alfredo García-Fernández; **Carlos Lara-Romero**; Javier Morente-López; Samuel Prieto; Maria L. Teso; Jose M Iriondo. Facilitated adaptation as a conservation tool in the present climatic change scenario.

SCIENTIFIC CONGRESS

1. Title of the work: Phenotypic and genomic data reveal adaptive genetic variation in flowering phenology in a Mediterranean alpine plant
Name of the conference: 1st Meeting of the Iberian Ecological Society (SIBECOL)
Type of participation: Oral communication
City of event: Barcelona, Spain. Date of event: 04/02/2019 - 07/02/2019
Organising entity: SIBECOL
2. Title of the work: Tropical seed dispersal networks: emerging patterns, biases and keystone species
Name of the conference: 54th Annual Meeting of the Association for Tropical Biology and Conservation

Type of participation: Oral communication

City of event: Merida, Mexico. Date of event: 09/07/2017 - 14/07/2017

Organising entity: National Autonomous University of Mexico

3. Title of the work: El rol de las poblaciones marginales en el manejo y restauración de poblaciones silvestre en un clima cambiante
Name of the conference: I Congreso Ecuatoriano de Restauración de Paisajes
Type of participation: Oral communication
City of event: Loja, Ecuador. Date of event: 05/04/2016 - 09/04/2016
Organising entity: Technical Particular University of Loja
4. Title of the work: ¿Es más grande siempre mejor? El papel del tamaño en las interacciones planta-frugívoro en el bosque seco tumbesino: implicaciones para la restauración
Name of the conference: I Congreso Ecuatoriano de Restauración de Paisajes
Type of participation: Oral communication.
City of event: Loja, Ecuador. Date of event: 05/04/2016 - 09/04/2016
Organising entity: Technical Particular University of Loja
5. Title of the work: Transcriptomic and phenotypic data from common gardens reveal adaptive genetic variation in a Mediterranean alpine plant
Name of the conference: 13th European Ecological Federation (EEF) Congress
Type of participation: Oral communication
City of event: Rome, Italy. Date of event: 21/09/2015 - 25/09/2015
Organising entity: European Ecological Federation (EEF)
6. Title of the work: *Silene ciliata* (Caryophyllaceae) as a model species in a climate change scenario: our multidisciplinary approaches
Name of the conference: Caryophyllales 2015 conference
Type of participation: Oral communication
City of event: Berlin, Germany. Date of event: 13/09/2015 - 18/09/2015
Organising entity: European Ecological Federation (EEF)
7. Title of the work: Local adaptation versus inbreeding depression in marginal populations of a Mediterranean alpine plant: are they worthy of conservation in a context of climate change?
Name of the conference: XVth European Society for Evolutionary Biology (ESEB) Meeting
Type of participation: Oral communication
City of event: Lausanne, Switzerland. Date of event: 10/08/2015- 15/08/2015
Organising entity: ESEB
8. Title of the work: Effects of gene flow in local adaptation: the role of marginal populations
Name of the conference: 4º Iberian Ecological Congress
Type of participation: Poster
City of event: Coimbra, Portugal. Date of event: 16/06/2015 - 19/06/2015
Organising entity: Asociación Española Ecología Terrestre (AEET), Sociedade Portuguesa de Ecologia (SPECO)
9. Title of the work: Variación del patrón de reclutamiento en plantas de alta montaña en un gradiente altitudinal.
Name of the conference: 11th Congress of the Spanish Association of Terrestrial Ecology (AEET) "Invitation to Ecology".
Type of participation: Oral communication
City of event: Pamplona, Spain. Date of event: 06/05/2013 - 10/05/2013
Organising entity: AEET, Universidad Pública de Navarra.

10. Title of the work: Differences in the diversity and composition of the pollinator assemblage of congeneric alpine plants in three mountain regions of the Iberian Peninsula (Spain)
 Name of the conference: SCAPE 2012
 Type of participation: Oral communication
 City of event: Halden, Norway. Date of event: 25/10/2012 - 28/10/2012
 Organising entity: Scandinavian Association for Pollination Ecology (SCAPE)

11. Title of the work: ¿Cómo afecta el proceso de matorralización de los pastos psicroxerófilos de alta montaña mediterránea a la red mutualista planta-polinizador?
 Name of the conference: IX Reunión del Grupo de Trabajo ECOFLOR.
 Type of participation: Oral communication
 City of event: Rodalquilar, Spain. Date of event: 02/02/2012
 Organising entity: Asociación Española de Ecología Terrestre (AEET)

12. Title of the work: Seedling dispersal patterns in two Mediterranean high fitting dispersal kernels along an altitudinal gradient.
 Name of the conference: 12th European Ecological Federation (EEF) Congress
 Type of participation: Poster
 City of event: AVILA, Spain Date of event: 25/09/2011
 Organising entity: European Ecological Federation (EEF)

13. Title of the work: Physiological stress shown by Roe deer populations living in mediterranean environments (Central Spain).
 Name of the conference: XXXth IUGB CONGRESS (International Union of Game Biologists) AND PERDIX XIII
 Type of participation: Poster
 City of event: BARCELONA, Spain. Date of event: 05/09/2011
 Organising entity: International Union of Game Biologists (IUGB) and PERDIX,

14. Title of the work: Identifying quality standards for genetic reserve conservation of CWR.
 Name of the conference: Towards the establishment of genetic reserve for crop wild relatives and landraces in Europe & Joint meeting of the ECPGR In situ and On Farm Conservation Network and the EU project AGRI GENRES; AEGRO
 Type of participation: Oral communication
 City of event: Funchal (Madeira) (Portugal), Portugal. Date of event: 13/09/2010
 Organising entity: AEGRO, Univesidade da Madeira

15. Title of the work: Evaluación de los efectos del cambio global en las poblaciones de tejón (*Meles meles*) de la sierra de Guadarrama (Madrid).
 Name of the conference: Ambientalia 2010. I Congreso Estatal de Sostenibilidad
 Type of participation: Poster
 City of event: Rivas-vaciamadrid, Spain. Date of event: 11/03/2010
 Organising entity: Coordinadora Estatal Ciencias Ambientales (CECCAA)

16. Title of the work: Are populations in the edge of their distribution range more stressed? A Non-invasive field evaluation of stress in the European badger (*Meles meles*) along an environmental gradient in the Iberian Peninsula: implications for Global Change
 Name of the conference: Conservation Physiology; Assessing & Forecasting the Responses of Organisms to Environmental Change.
 Type of participation: Poster
 City of event: Glasgow, Scotland, United Kingdom. Date of event: 28/06/2009
 Organising entity: Society for Experimental Biology (SEB)

17. Title of the work: Evaluating adrenal activity and effects related with the collection and conservation of faecal samples to understand the physiological stress responses of wild European badgers.
 Name of the conference: Conservation Physiology; Assessing & Forecasting the Responses of Organisms to Environmental Change
 City of event: Glasgow, Scotland, United Kingdom. Date of event: 28/06/2009
 Organising entity: Society for Experimental Biology (SEB)
18. Title of the work: Is density a good measure of habitat quality? A macrophysiological test with Eurasian badgers in Spain
 Name of the conference: Conservation Physiology; Assessing & Forecasting the Responses of Organisms to Environmental Change
 Type of participation: Poster
 City of event: Glasgow, Scotland, United Kingdom. Date of event: 28/06/2009
 Organising entity: Society for Experimental Biology (SEB)
19. Title of the work: Distribución y abundancia del tejón europeo (*Meles meles*) en ecosistemas semiáridos de la Península Ibérica: importancia del uso humano
 Name of the conference: IV congreso de la Naturaleza de la Región de Murcia y I del Sureste Ibérico. Cambio Climático y Ecosistemas Semiáridos
 Type of participation: Oral communication
 City of event: Murcia, Spain. Date of event: 19/11/2008
 Organising entity: ANSE, CEMACAM
20. Title of the work: Evaluación del estrés del tejón europeo (*Meles meles*) en un gradiente ambiental en su límite de distribución sur: implicaciones ante el cambio global
 Name of the conference: IV congreso de la Naturaleza de la Región de Murcia y I del Sureste Ibérico. Cambio Climático y Ecosistemas Semiáridos
 Type of participation: Oral communication
 City of event: Murcia, Spain. Date of event: 19/11/2008
 Organising entity: ANSE, CEMACAM
21. Title of the work: Ponencia de clausura: "Lectura de Conclusiones".
 Name of the conference: VI Jornadas Medioambientales de Montejo de la Sierra
 Type of participation: Oral communication
 City of event: Montejo de la sierra, Spain
 Date of event: 2005
 Organising entity: URJC, Ayuntamiento Montejo de la Sierra

OBTAINED GRANTS AND FELLOWSHIPS

4 research fellowships (2 postdoctoral), 5 travel grants (1 postdoctoral) and 2 conference and workshop grants. Total amount: 145 893 €.

Research fellowships

1. Name of the grant: Juan de la Cierva Postdoctoral Fellowship (2 years)
 Awarding entity: Spanish Ministry of Economy and Competitiveness.
 Conferral date: 29/11/2016. Total amount: 50 000 €
 Entity where activity was carried out: Mediterranean Institute for Advanced Studies, Spanish National Research Council (CSIC), Balearic Island, Spain.

2. Name of the grant: Postdoctoral Fellowship (6 months)
Awarding entity: Technical Particular University of Loja.
Conferral date: 19/10/2015. Total amount: 15 166 €
Entity where activity was carried out: Technical Particular University of Loja, Ecuador.
3. Name of the grant: Predoctoral F.P.I. Fellowship (4 years)
Awarding entity: Spanish Ministry of Science and Innovation.
Conferral date: 01/09/2010. Total amount: 55 560 €.
Entity where activity was carried out: Rey Juan Carlos University, Spain
4. Name of the grant: Research Initiation Fellowship (9 months)
Awarding entity: Spanish Ministry of Education and Culture.
Conferral date: 15/11/2007. Total amount: 2 550€.
Entity where activity was carried out: Rey Juan Carlos University, Spain

Travel grants

5. Name of the grant: Mobility grant of COTE cluster of excellence (LabEx COTE) (Post-doctoral).
Awarding entity: Université de Bordeaux. Total amount: 3 000 €.
Conferral date: 10/08/2018 Duration: 4 months
Entity where activity was carried out: INRA, Bordeaux, France
6. Name of the grant: José Castillejo Mobility Grants (Post-doctoral).
Awarding entity: Spanish Ministry of Science, Innovation and Universities. Total amount: 12 757 €.
Conferral date: 10/08/2018 Duration: 4 months
Entity where activity was carried out: INRA, Bordeaux, France
7. Name of the grant: Exchange Grant within the framework of the ESF networking programma ConGenOmics (Post-doctoral).
Awarding entity: European Science Foundation (ESF). Total amount: 5 600 €.
Conferral date: 01/01/2015 Duration: 3 months
Entity where activity was carried out: ETH Zurich, Switzerland.
8. Name of the grant: Short research stay fellowships of FPI program (Pre-doctoral).
Awarding entity: Spanish Ministry of Economy and competitiveness. Total amount: 2 840 €.
Conferral date: 29/01/2014. Duration: 2 months - 12 days
Entity where activity was carried out: CIBIO/InBIO, Portugal
9. Name of the grant: Short research stay fellowships of FPI program (Pre-doctoral).
Awarding entity: Spanish Ministry of Economy and competitiveness. Total amount: 5 200 €.
Conferral date: 23/09/2013 Duration: 2 months - 22 days
Entity where activity was carried out: ETH Zurich, Switzerland
10. Name of the grant: Short research stay fellowships of FPI program (Pre-doctoral).
Awarding entity: Spanish Ministry of Economy and competitiveness. Total amount: 3 750 €.
Conferral date: 09/10/2012 Duration: 2 months - 3 days
Entity where activity was carried out: Uppsala University, Sweden
11. Name of the grant: Short research stay fellowships of FPI program (Pre-doctoral).
Awarding entity: Spanish Ministry of Science and Innovation. Total amount: 5 200 €.
Conferral date: 05/10/2011 Duration: 2 months - 15 days
Entity where activity was carried out: ETH Zurich, Switzerland

Funding for organising scientific meeting/workshop

12. Name of the grant: Ayudas a la organización de congresos, jornadas y seminarios (Funding for organising science meetings, scientific workshops, conferences and summer schools)
Aims: Organization of NGS Data Analysis Course. Awarding entity: Rey Juan Carlos University.
Conferral date: 05/02/2016. Total amount: 527 €.
13. Name of the grant: Ayudas a la organización de congresos, jornadas y seminarios (Funding for organising science meetings, scientific workshops, conferences and summer schools)
Aims: Organization of NGS Data Analysis Course. Awarding entity: Rey Juan Carlos University.
Conferral date: 2017. Total amount: 600 €.
14. Name of the grant: III Edición del Programa FORMAVANZ de la Fundación General CSIC-FGCSIC. (Funding for organising training activities)
Aims: Organization of Data Analysis Course (Curso de análisis de redes ecológicas). Awarding entity: Fundación General CSIC- FGCSIC.
Conferral date: 2017. Total amount: 3750 €.
15. Name of the grant: IV Edición del Programa FORMAVANZ de la Fundación General CSIC-FGCSIC. (Funding for organising training activities)
Aims: Organization of Data Analysis Course (Curso de análisis de redes ecológicas). Awarding entity: Fundación General CSIC- FGCSIC.
Conferral date: 2019. Total amount: 4000 €.

RESEARCH MANAGEMENT AND PARTICIPATION IN SCIENTIFIC COMMITTEES

Organization and management of research activities

1. Title of the activity: Curso Superior en Análisis de Redes Ecológicas (Ecological Network Analysis course)
Type of activity: Main organizer. Secretary
Convening entity: Rey Juan Carlos University, Madrid, Spain
Start-End date: 27/05/2019 - 31/05/2019.
2. Title of the activity: Introduction to next generation sequencing: applications in ecology and evolution.
Type of activity: Coordinator
Convening entity: University of Barcelona (UB). Barcelona, Spain
Start-End date: 02/07/2018 - 06/07/2018. (15 hrs)
3. Title of the activity: Curso de análisis de redes ecológicas (Network Analysis course)
Type of activity: Coordinator
Convening entity: University of Balearic Islands. Palma, Spain
Start-End date: 21/03/2018 - 23/03/2018.
4. Title of the activity: XV Reunión del Grupo de Trabajo ECOFLOR
Type of activity: Conference Organizer
Convening entity: Mediterranean Institute of Advanced Studies (IMEDEA-CSIC), Palma, Spain
Start-End date: 01/02/2018 - 03/02/2018
5. Title of the activity: Evolutionary responses to climate change. Evidence from Mediterranean plant populations (Symposia at the XIV MEDECOS & XIII AEET meeting)
Performed tasks: Convener/Chairman
City of event: Sevilla, Spain. Date of event: 31/01/2017 – 04/02/2017

Organising entity: AEET, MEDECOS

6. Title of the activity: Curso de Introducción a las técnicas de Next Generation Sequencing: aplicaciones en ecología y evolución (NGS Data Analysis Course).
Performed tasks: Coordinator
Organising entity: Summer School of the Rey Juan Carlos University, Madrid, Spain.
Date of event: 04/07/2016 – 08/07/2016 (1st edition) & 04/07/2017 – 08/07/2017 (2nd edition).
7. Title of the activity: Annual seminary of the Biodiversity and Conservation Area, Rey Juan Carlos University.
Performed tasks: Convener/Chairman
Organising entity: Rey Juan Carlos University, Spain.
Start - End: 2011 – 2014
8. Title of the activity: Comisión de Garantía de Calidad Programa Doctorado de Conservación de Recursos Naturales
Performed tasks: Member of the Quality Committee of the doctorate program
Entity: Rey Juan Carlos University, Spain.
Start-End: 2010 – 2012

Evaluation and revision of R&D projects and articles

2014 – present. Reviewer for the journals:

Molecular Ecology (2), Scientific Reports (3), Frontiers in Plant Genetics (1), Applied Vegetation Science (1), Biology Letters (1), Plant Biology (1), Oecologia (1), Basic and Applied Ecology (1), Journal of Plant Ecology (1), Plos One (1) and Ecosistemas (1).

Thesis committee

1. Candidate: Dra. Rocío Castro Urgal.
Entity: University of Balearic Islands. Palma, Spain.
Date: 27/10/2017.
2. Candidate: Dr. Jaume Seguí.
Entity: University of Balearic Islands. Palma, Spain.
Date: 28/09/2017.

Scientific societies and professional associations

1. Name of the society: Asociación Española de Ecología Terrestre (Spanish Ecological Society)
City affiliation entity: Móstoles, Community of Madrid, Spain
Start-End: 2010 – Present
2. Name of the society: European Ecological Federation (EEF)
City affiliation entity: London, United Kingdom
Start-End: 2010 – Present

Co-operation networks

1. Name of the network: GrENE-net – Genomics of rapid Evolution in Novel Environments.
Identification of the network: GrENE-net is set up as a coordinated distributed experiment

with *Arabidopsis thaliana*. The consortium counts with the collaboration of more than 50 researchers of several countries in the world.

2. Name of the network: ECOFLOR. Spanish group of scientists interested on reproductive ecology of flowering plants (from evolution to pollinators)
Participating entity: Spanish Association of Terrestrial Ecology (AEET)
3. Name of the network: EcoInformatica. Spanish group of scientists interested on bioinformatics
Participating entity: Spanish Association of Terrestrial Ecology (AEET)

TEACHING EXPERIENCE

General teaching experience

433 hours of teaching: 142 hrs of teaching in M.S. degrees, 203 hrs of teaching in B.S. degrees and 88 hrs of teaching specialized courses.

1. Rey Juan Carlos University.

2010-2011.

Degree in Science and food technology. Subject: Biology. (18 hrs).

2011-2012

Degree in Science and food technology. Subject: Biology (8 hrs).

Degree in Environmental Science. Subject: Cartography (4 hrs).

2012-2013.

Degree in Science and food technology. Subject: Biology (12 hrs).

Degree in Environmental Science. Biodiversity conservation (5 hrs) and Botany (6 hrs).

Degree in Experimental Science. Subject: Biology (12 hrs).

Degree in Chemical Engineering. Subject: Biotechnology (22 hrs).

2015-2016

Degree in Biology. Subject: Evolutionary Genetics (36 hrs).

Masters Degree in Conservation and Ecology. Subject: Field sampling Methods (4 hrs).

2016-2017

Degree in Biology. Subject: Evolutionary Genetics (36 hrs).

Masters Degree in Conservation and Ecology. Subject: Field sampling Methods (2 hrs) and Genetic Restoration (8 hrs).

2017-2018

Masters Degree in Conservation and Ecology. Subject: Genetic Restoration (4 hrs).

2018-2019

Masters Degree in Conservation and Ecology. Subject: Genetic Restoration (6 hrs).

2. Technical Particular Univeristy of Loja, Ecuador

2015-2016

Masters Degree in Tropical Ecology and Biodiversity. Subject: Population Biology (100 hrs).
Degree in Chemical Engineering. Subject: Experimental Design and Statistical Analysis (48 hrs).

3. University of Alcala, Spain.

2016-2017, 2017-2018 and 2018 - 2019

Masters Degree in Ecosystem Restauration. Subject: Genetic Restoration (16 hrs).

Experience supervising doctoral thesis and/or final year projects

1. Project title: Adaptive processes of alpine plants in marginal areas: an integrative approach. Student: Javier Morente López. 2019

Experience supervising final year projects (TFG) and final master project (TFM)

1. Project title: Caracterización de la red nocturna de plantas-polinizadores de la Sierra de Guadarrama. Student: Miguel Cantero Laorden, 2012 (TFG).
2. Project title: Estudio de la ruptura de la dormancia y germinación de las semillas de *Silene ciliata* (Trabajo fin de Grado). Student: Marcos Peromingo Quesada, 2013 (TFG).
3. Project title: Estudio de la estructura genética espacial intrapoblacional de *Silene ciliata*, una planta de alta montaña mediterránea. Student: Angela Lopez Gil, 2013 (TFG).
4. Project title: Control genético de caracteres funcionales en poblaciones de *Silene ciliata*. Análisis de la variación interpoblacional. Student: Pablo Tabares, 2017, (TFG).
5. Project title: Transcriptome study of *Silene ciliata* using NGS and bioinformatic approaches: future applications in ecology and evolution. Student: Sandra Sacristán, 2017 (TFM).
6. Project title: Evaluating the structure of commensalistic epiphyte–phorophyte networks. A comparative perspective of biotic interactions. Student: Carlos J. Naranjo, 2018 (TFM).
7. Project title: Efecto de la selección asistida de la floración en la germinación de semillas de *Silene ciliata* Student: Aida Bejarano Lorenzo (TFG). In progress.

Teaching experience in courses and seminars

1. Title of the course: Curso Superior Universitario en Análisis de Redes Ecológicas (Network Analysis course)
Convening entity: Rey Juan Carlos University, Madrid, Spain
Start-End date: 27/05/2019 - 31/05/2019. (20 hrs)
2. Title of the course: Introduction to next generation sequencing: applications in ecology and evolution
Convening entity: University of Barcelona (UB). Barcelona, Spain
Start-End date: 02/07/2018 - 06/07/2018. (15 hrs)
3. Title of the course: Curso de análisis de redes ecológicas (Network Analysis course)
Convening entity: University of Balearic Islands. Palma, Spain
Start-End date: 21/03/2018 - 23/03/2018. (8 hrs)
4. Title of the course: Curso de Introducción a las técnicas de Next Generation Sequencing: aplicaciones en ecología y evolución (NGS Data Analysis Course).

Organising entity: Summer School of the Rey Juan Carlos University, Madrid, Spain.

Date of event: 04/07/2016 – 08/07/2016 (1st edition, 16 hrs); 04/07/2017 – 08/07/2017 (2nd edition, 16 hrs); . 01/07/2019– 05/07/2019 (4rd edition, 13 hrs)