

Date of the CVA	24/11/2017
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Section A. PERSONAL DATA

Name and Surname	Rafael Rubio de Casas		
DNI	52985693	Age	41
Researcher's identification number	Researcher ID		
	Scopus Author ID		
	ORCID		

A.1. Current professional situation

Institution			
Dpt. / Centre			
Address	Departamento de Ecología, Fac. de Ciencias, Avda. de la Fuentenuueva s/n, 18071, Granada		
Phone	(34) 958241000 - 20037	Email	rubiodecasas@ugr.es
Professional category		Start date	
UNESCO spec. code			
Keywords			

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year

A.3. General quality indicators of scientific production

42 Papers published or accepted for publication; 40 in international indexed journals, 2 in national Spanish journals; 1 Book chapter; 3 Highly Cited Papers WOS; 965 Citations; h-index=16

88% (37) publications in Q1 Journals; 45% (18) pubs. in first decile; 3 papers in journals with Impact Factor > 9

42% (16) publications as first or corresponding author

83% after dissertation; average > 3 pubs/ year

24 Presentations at international conferences

Four grants as PI

Total funds secured as PI 464000€

International experience > 6 years in US & French research institutions

Section B. SUMMARY OF THE CURRICULUM

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

- Scientific paper.** Diego Salazar Tortosa; et al. 2017. Gas exchange at whole plant level shows that a less conservative water use is linked to a higher performance in three ecologically distinct pine species Environmental Research Letters. En Prensa.
- Scientific paper.** Rafael Rubio de Casas; et al. (6/1). 2017. Global biogeography of seed dormancy is determined by seasonality and seed size: a case study in the legumes New Phytologist. 214-4, pp.1527-1536.
- Scientific paper.** Adrián Escribano Rocafort; et al. (7/4). 2017. Intraindividual variation in light-related functional traits: magnitude and structure of leaf trait variability across global scales in Olea europaea trees Trees: Structure and Function. En prensa.

- 4 **Scientific paper.** José María Iriondo; et al. 2017. Reproductive traits and evolutionary divergence between Mediterranean crops and their wild relatives *Plant Biology*. ISSN 1435-8603.
- 5 **Scientific paper.** Grossenbacher, D.L.; et al. 2017. Self-compatibility is over-represented on islands *New Phytologist*. 215-1, pp.469-478.
- 6 **Scientific paper.** Adrián Escribano Rocafort; et al. (7/5). 2017. Variance of light-related leaf traits across spatial and temporal scales in the Mediterranean evergreen *Olea europaea* L. *Perspectives in Plant Ecology, Evolution and Systematics*. 28, pp.28-35.
- 7 **Scientific paper.** Paula Villa Martín; et al. 2016. Eco-evolutionary Model of Rapid Phenotypic Diversification in Species-Rich Communities *PLoS Computational Biology*. 12-10, pp.e1005139.
- 8 **Scientific paper.** Jorge Hidalgo; Rafael Rubio de Casas; Miguel Ángel Muñoz. (3/2). 2016. Environmental unpredictability and inbreeding depression select for mixed dispersal syndromes *BMC Evolutionary Biology*. pp.1-12.
- 9 **Scientific paper.** Guillaume Besnard; Rafael Rubio de Casas. (2/2). 2016. Single versus multiple independent olive domestications: the jury is (still) out *New Phytologist*. 209-2, pp.466-470.
- 10 **Scientific paper.** Adrián Escribano-Rocafort; et al. 2016. The expression of light-related leaf functional traits depends on the location of individual leaves within the crown of isolated *Olea europaea* L. trees. *Annals of Botany*. 117-4, pp.643-651.
- 11 **Scientific paper.** Rafael Rubio de Casas; Mark E. Mort; Douglas E. Soltis. (3/1). 2016. The influence of habitat on the evolution of plants: a case study across Saxifragales *Annals of Botany*. 118-7, pp.1317-1328.
- 12 **Scientific paper.** Ventre-Lespiauq, A.B.; et al. 2015. Field patterns of temporal variations in the light environment within the crowns of a Mediterranean evergreen tree (*Olea europaea*) *Trees - Structure and Function*. pp.1-15.
- 13 **Scientific paper.** Rafael Rubio de Casas; et al. (1/1). 2015. Gene-flow through space and time: Dispersal, dormancy and adaptation to changing environments *Evolutionary Ecology*. 29-6, pp.813-831.
- 14 **Scientific paper.** Pannell, J.R.; et al. 2015. The scope of Baker's law *New Phytologist*. 208-3, pp.656-667.
- 15 **Scientific paper.** Rafael Yus Ramos; Rafael Rubio de Casas; Óscar Gavira Romero. 2014. Acerca de las interacciones entre brúquidos y legumbres subterráneas (Coleoptera: Bruchidae) *Boletín de la Sociedad española de Entomología*. 38-3-4.
- 16 **Scientific paper.** Larson, G.; et al. 2014. Current Perspectives and the Future of Domestication Studies *Proceedings of the National Academy of Sciences*. 111, pp.6139-6146.
- 17 **Scientific paper.** Charlie G. Willis; et al. 2014. Diversification and the evolution of dispersal ability in the tribe Brassiceae (Brassicaceae) *Annals of Botany*. 114, pp.1675-1686.
- 18 **Scientific paper.** R. 2014. Por qué y cómo el sistema de cruzamiento está correlacionado con los mecanismos de dispersión *Ecosistemas*. 23-3, pp.31-35.
- 19 **Scientific paper.** Pascale Gerbault; et al. 2014. Story Telling and Story Testing in Domestication: Can Modeling Help? *Proceedings of the National Academy of Sciences*. 111, pp.6159-6164.
- 20 **Scientific paper.** Charlie G. Willis; et al. (8/8). 2014. The evolution of seed dormancy: environmental cues, evolutionary hubs, and diversification of the seed plants *New Phytologist*. 203, pp.300-309.
- 21 **Scientific paper.** Soltis, DE; et al. 2013. Phylogenetic Relationships and Character Evolution Analysis of Saxifragales Using a Supermatrix Approach *AMERICAN JOURNAL OF BOTANY*. Botanical Society of America. 100-5, pp.916-929.
- 22 **Scientific paper.** Chiang, G C.K.; et al. 2013. Pleiotropy in the wild: The dormancy gene *DOG1* exerts cascading control on life-cycles *EVOLUTION*. Blackwell Publishing Inc. 67-3, pp.883-893. ISSN 1558-5646.
- 23 **Scientific paper.** Donohue, Kathleen; et al. 2012. Maternal effects alter natural selection on phytochromes through seed germination *JOURNAL OF ECOLOGY*. 100-3, pp.750-757. ISSN 0022-0477.

- 24 **Scientific paper.** Rubio de Casas, R; et al. 2012. Seed after-ripening and dormancy determine adult life history independently of germination timing NEW PHYTOLOGIST. 194-3, pp.868-879. ISSN 0028-646X.
- 25 **Scientific paper.** Auld, Josh R.; Rubio de Casas, Rafael. 2012. The Correlated Evolution of Dispersal and Mating-System Traits EVOLUTIONARY BIOLOGY. Springer US. 40-2, pp.185-193. ISSN 0071-3260.
- 26 **Scientific paper.** Balaguer, Luis; et al. 2011. Forest Restoration in a Fog Oasis: Evidence Indicates Need for Cultural Awareness in Constructing the Reference PLOS ONE. 6-8. ISSN 1932-6203.
- 27 **Scientific paper.** de Casas, RR; et al. 2011. Sun and shade leaves of *Olea europaea* respond differently to plant size, light availability and genetic variation FUNCTIONAL ECOLOGY. 25-4, pp.802-812. ISSN 0269-8463.
- 28 **Scientific paper.** Granado-Yela, C; et al. 2011. Temporal matching among diurnal photosynthetic patterns within the crown of the evergreen sclerophyll *Olea europaea* L. PLANT CELL AND ENVIRONMENT. 34-5, pp.800-810. ISSN 0140-7791.
- 29 **Scientific paper.** Donohue, Ka; et al. 2010. Germination, Postgermination Adaptation, and Species Ecological Ranges ANNUAL REVIEW OF ECOLOGY, EVOLUTION AND SYSTEMATICS. 41, pp.293-319. ISSN 1543-592X, ISBN 978-0-8243-1441-5.
- 30 **Scientific paper.** Vazquez-de-Aldana, B R; et al. 2010. Relationships between the genetic distance of *Epichlo festucae* isolates and the ergovaline and peramine contents of their *Festuca rubra* hosts ANNALS OF APPLIED BIOLOGY. 156-1, pp.51-61. ISSN 0003-4746.
- 31 **Scientific paper.** Garcia-Verdugo, C; et al. 2009. Phenotypic plasticity and integration across the canopy of *Olea europaea* subs. *guanchica* (Oleaceae) in populations with different wind exposures AMERICAN JOURNAL OF BOTANY. 96-8, pp.1454-1461. ISSN 0002-9122.
- 32 **Scientific paper.** Esteban, R; et al. 2009. Alternative methods for sampling and preservation of photosynthetic pigments and tocopherols in plant material from remote locations PHOTOSYNTHESIS RESEARCH. 101-1, pp.77-88. ISSN 0166-8595.
- 33 **Scientific paper.** Besnard, G; et al. 2009. Phylogenetics of *Olea* (Oleaceae) based on plastid and nuclear ribosomal DNA sequences: Tertiary climatic shifts and lineage differentiation times ANNALS OF BOTANY. 104-1, pp.143-160. ISSN 0305-7364.
- 34 **Scientific paper.** de Casas, RR; et al. 2009. Variation in sclerophylly among Iberian populations of *Quercus coccifera* L. is associated with genetic differentiation across contrasting environments PLANT BIOLOGY. 11-3, pp.464-472. ISSN 1435-8603.
- 35 **Scientific paper.** Garcia-Verdugo, C; et al. 2009. Genetic diversity and differentiation processes in the ploidy series of *Olea europaea* L.: a multiscale approach from subspecies to insular populations MOLECULAR ECOLOGY. 18-3, pp.454-467. ISSN 0962-1083.
- 36 **Scientific paper.** Besnard, G; et al. 2008. Polyploidy in the olive complex (*Olea europaea*): Evidence from flow cytometry and nuclear microsatellite analyses ANNALS OF BOTANY. 101-1, pp.25-30. ISSN 0305-7364.
- 37 **Scientific paper.** de Casas, RR; et al. 2007. Field patterns of leaf plasticity in adults of the long-lived evergreen *Quercus coccifera* ANNALS OF BOTANY. 100-2, pp.325-334. ISSN 0305-7364.
- 38 **Scientific paper.** Besnard, G.; Rubio de Casas, R.; Vargas, P. 2007. Plastid and nuclear DNA polymorphism reveals historical processes of isolation and reticulation in the olive tree complex (*Olea europaea*) JOURNAL OF BIOGEOGRAPHY. 34-4, pp.736-752. ISSN 0305-0270.
- 39 **Scientific paper.** de Casas, RR; et al. 2007. Taxonomic identity of *Quercus coccifera* L. in the Iberian Peninsula is maintained in spite of widespread hybridisation, as revealed by morphological, ISSR and ITS sequence data FLORA. 202-6, pp.488-499. ISSN 0367-2530.
- 40 **Scientific paper.** de Casas, RR; et al. 2006. Extensive gene flow blurs phylogeographic but not phylogenetic signal in *Olea europaea* L. THEORETICAL AND APPLIED GENETICS. 113-4, pp.575-583. ISSN 0040-5752.
- 41 **Scientific paper.** Besnard, G; De Casas, RR; Vargas, P. 2003. A set of primers for length and nucleotide-substitution polymorphism in chloroplastic DNA of *Olea europaea* L. (Oleaceae) MOLECULAR ECOLOGY NOTES. 3-4, pp.651-653. ISSN 1471-8278.

- 42 Scientific paper.** Rubio, R.; et al. 2002. On the historical presence of the wild olive [*Olea europaea* L. var. *sylvestris* (Miller) Lehr. (Oleaceae)] in the Eurosiberian region of the Iberian Peninsula ANALES DEL JARDÍN BOTÁNICO DE MADRID. CSIC. 59, pp.343-344.
- 43 Book chapter.** Rubio de Casas, R.; Willis CG; Donohue, K.2012. Plant dispersal phenotypes: a seed perspective of maternal habitat selection DISPERSAL ECOLOGY AND EVOLUTION. OXFORD UNIVERSITY PRESS. pp.171-184.

C.2. Participation in R&D and Innovation projects

- 1 The role of predator avoidance in seed evolution Universidad de Granada. Rafael Rubio de Casas. (Universidad de Granada). 01/10/2016-30/09/2021. 160.000 €.
- 2 El Asilvestramiento de Especies Cultivadas como Proceso Evolutivo Ministerio de Economía y Competitividad; Programa Estatal de I+D+i Orientada a los Retos de la Sociedad. Rafael Rubio de Casas. (Universidad de Granada). 29/12/2016-28/12/2019. 127.000 €.
- 3 Infraestructuras para el cultivo en condiciones controladas de plantas e in Ministerio de Economía y Competitividad; Convocatoria de Infraestructura Científico-Tecnológica 2015. Francisco Perfectti Álvarez. (Universidad de Granada). 01/01/2016-31/12/2017. 199.000 €.
- 4 Procesos ecológicos y genéticos que producen especiación: la interacción entre hibridación, poliploidía y adaptación local en plantas generalistas (PREGEPES) Ministerio de Economía y Competitividad. Francisco Perfectti Álvarez. (Universidad de Granada). 01/01/2015-31/12/2017. 85.000 €.
- 5 Bet-hedging, trade-offs and the evolution of seed dispersal and dormancy Junta de Andalucía. Rafael Rubio de Casas. (Estación Experimental de Zonas Áridas). 01/10/2014-30/09/2015. 166.304,38 €.
- 6 The Evolutionary Ecology Of underground Fruits (TEE-OFF) European Commission – 7th Framework Programme- Marie Curie International Incoming Fellowships. Rafael Rubio de Casas. (Universidad de Granada). 01/08/2012-31/07/2014. 233.705,2 €.
- 7 The Physiological Basis of Natural Variation in Germination Responses of *Arabidopsis thaliana* National Science Foundation. (Duke University). 01/07/2008-31/03/2011.
- 8 Germination, Trait Coevolution, and Niche Limits in Changing Environments National Science Foundation. Rafael Rubio de Casas. (NESCent). 01/01/2010-31/01/2011. 73.000 €.
- 9 R & D Program for environmental restoration in the Madrid Autonomous Community (REMEDINAL) (P-AMB-000335-0505) Dirección general de universidades e investigación de la Comunidad de Madrid. Adrián Escudero Alcántara. (Several Institutions). 01/01/2006-31/12/2009. 726.000 €.
- 10 Adaptive management and ecological restoration of the fog oases forests in the Lomas de Atiquipa (SEGARNIEBLA) FUNDACION BANCO BILBAO-VIZCAYA. Luis Balaguer Núñez. (Universidad Complutense de Madrid). 01/01/2006-31/12/2008. 177.000 €.
- 11 Evolutionary processes and mechanisms in the wild olive (*Olea europaea* L.). MCYT- Programa Nacional Cambio Global y Biodiversidad. Luis Balaguer Núñez. (Universidad Complutense de Madrid). 2006-2008. 110.000 €.
- 12 Phenotypic plasticity, environmental heterogeneity and developmental instability in *Olea europaea* L. Comisión Interministerial de Ciencia y Tecnología. Pablo Vargas Gómez. (Real Jardín Botánico). 2002-2005. 15.000 €.

C.3. Participation in R&D and Innovation contracts

C.4. Patents