



David Sánchez Gómez

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**David Sánchez Gómez**

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 Name: **David**
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Current professional situation

Name of institution: Centro Agrario de Albadalejito

Category/position or post: Researcher

Start date: 01/02/2015

Type of contract: Temporary employment contract

Type of dedication: Full time

Primary (UNESCO code): 241713 - Plant ecology; 241715 - Plant growth; 241719 - Plant physiology; 241793 - Plant genetic resources; 310301 - Crop breeding; 310701 - Breeding

Activity keywords: Photosynthesis; Plant growth; Plant ecology

Previous posts and activities

	Name of institution	Category/position or post	Start date
1	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria	Higher Technician	10/11/2014
2	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria	Higher Technician	01/04/2013
3	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria	Researcher	24/01/2012
4	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria	Technician	12/06/2011
5	Universidad Politécnica de Madrid	Postdoc position "Juand de la Cierva program"	01/01/2008



	Name of institution	Category/position or post	Start date
6	Universidad Rey Juan Carlos	Researcher	01/09/2006
7	Centro de Ciencias Medioambientales	Fellowship holder "FPU program"	01/01/2002
8	Centro de Ciencias Medioambientales	Fellowship holder	01/09/2001
9	Universidad Complutense de Madrid	Fellowship holder	01/01/2001

1 Name of institution: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body
Category/position or post: Higher Technician
Start-End date: 10/11/2014 - 31/01/2015

2 Name of institution: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body
Category/position or post: Higher Technician
Start-End date: 01/04/2013 - 15/09/2014

3 Name of institution: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body
Department, service, etc.: ecología y genética forestal, Centro de Investigación Forestal
City of job: madrid, Community of Madrid, Spain
Category/position or post: Researcher
Start-End date: 24/01/2012 - 31/03/2013
Type of contract: Temporary employment contract

4 Name of institution: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body
Department, service, etc.: ecología y genética forestal, Centro de Investigación Forestal
City of job: madrid, Community of Madrid, Spain
Category/position or post: Technician
Start-End date: 12/06/2011 - 23/01/2012
Type of contract: Temporary employment contract

5 Name of institution: Universidad Politécnica de Madrid **Type of institution:** University
Department, service, etc.: Escuela Técnica Superior de Ingenieros de Montes
Category/position or post: Postdoc position "Juand de la Cierva program"
Start-End date: 01/01/2008 - 31/12/2010

6 Name of institution: Universidad Rey Juan Carlos **Type of institution:** University
Category/position or post: Researcher
Start-End date: 01/09/2006 - 28/02/2007

7 Name of institution: Centro de Ciencias Medioambientales **Type of institution:** State agency
Category/position or post: Fellowship holder **Teaching management:** No
 "FPU program"
Start-End date: 01/01/2002 - 31/12/2005
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Type of dedication: Full time



- 8** **Name of institution:** Centro de Ciencias Medioambientales **Type of institution:** State agency
Category/position or post: Fellowship holder
Start-End date: 01/09/2001 - 31/12/2001
- 9** **Name of institution:** Universidad Complutense de Madrid **Type of institution:** University
Department, service, etc.: Biología Animal I, Facultad de Ciencias Biológicas
Category/position or post: Fellowship holder
Start-End date: 01/01/2001 - 15/07/2001
Type of contract: Grant-assisted student (pre or post-doctoral, others)



Official training received

University education

University degrees, engineering degrees or master's degrees

Official qualification: Higher degree
Name of qualification: Biology degree
institution issuing the qualification: Universidad Complutense de Madrid **Type of institution:** University
Date of qualification: 28/08/2001

Doctorates

Doctorate programme: Ecology and Environmental Science
University issuing the qualification: Universidad Complutense de Madrid **Type of institution:** University
Date of qualification: 29/05/2006

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

- 1 **Training title:** Advance Training Course about the LI 6400 gas exchange analyzer
institution issuing the qualification: GEONICA, S.A. **Type of institution:** Innovation and Technology Centres (on behalf of LI-COR)
Training end date: 29/03/2012 **Duration in hours:** 24 hours
- 2 **Training title:** Course on methods of spatial analysis for Forest Ecology
institution issuing the qualification: Network Globimed, Ministry of Science and Technology
Training end date: 13/02/2004 **Duration in hours:** 24 hours
- 3 **Training title:** Official School of Languages (English) level 4
institution issuing the qualification: Official School of Languages Jesús Maestro, Madrid
Training end date: 2004
- 4 **Training title:** Postgraduate course: Basic Methodologies for Functional and Evolutionary Ecology
institution issuing the qualification: CSIC
Training end date: 24/10/2003
- 5 **Training title:** Course on object-oriented programming (C++) for Windows
institution issuing the qualification: IBM and Universidad Politécnica de Madrid
Training end date: 20/12/2000



6 Training title: Course on Visual Basic programming
institution issuing the qualification: IBM and Universidad Politécnica de Madrid
Training end date: 05/06/2000

7 Training title: Course on Access 97
institution issuing the qualification: IBM and Polytechnic University of Madrid
Training end date: 22/10/1999

Language skills

Language	Speaking	Reading	Writing
Spanish	Advanced	Advanced	Advanced
English	Advanced	Advanced	Advanced

Teaching activity

Other activities/achievements not included above

- Description of the activity:** 5 teaching hours within the V International Course on Conservation and Sustainable Use of Forest Genetic Resources
Organising institution: INIA and the Spanish Agency for International Cooperation
Activity end date: 26/10/2010
- Description of the activity:** 4 teaching hours within the IV International Course on Conservation and Sustainable Use of Forest Genetic Resources
Organising institution: INIA and collaboration of the Spanish Agency for International Cooperation
Activity end date: 28/11/2008
- Description of the activity:** 3 teaching hours within the master course: Modelos de dinámica forestal: aplicación al estudio y gestión del bosque mediterráneo”
Organising institution: Department of Ecology (UAH)
Activity end date: 03/04/2006



Experience in science and technology

Scientific or technological activity

Participation in R&D&I projects funded in competitive calls by public or private bodies

- 1** **Name of the project:** PinCoxSeq, Estudio multidisciplinar de la respuesta de Pinus pinaster a sequía bajo distintas concentraciones de CO₂ atmosférico (AGL2012-35175)

Institution where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body

Head(s) researcher(s): M Teresa Cervera

Number of researchers: 10

Funding institution or bodies: Ministerio de Ciencia e Innovación **Type of institution:** Ministry

City: Madrid, Community of Madrid, Spain

Start-End date: 2013 - 2015

Total amount: 200.000
- 2** **Name of the project:** ProCoGen: Promoting a functional and comparative understanding of the conifer genome- implementing applied aspects for more productive and adapted forests

Institution where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body

Head(s) researcher(s): Carmen Díaz-Sala; M Teresa Cervera

Number of researchers: 50

Funding institution or bodies: Large Collaborative Project, KBBE.2011.1.1-01 theme 2 (Food, Agriculture and Fisheries, and Biotechnology) Cooperation Programme 7FP UE (FP7- 289841)

Start-End date: 2012 - 2015

Total amount: 400.617
- 3** **Name of the project:** ECOFISEPI-AGL2011-25365, Aspectos ecofisiológicos y epigenéticos de la respuesta a estrés hídrico en especies forestales: Fagus sylvatica L. como modelo de estudio

Institution where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of institution:** Public Research Body

Head(s) researcher(s): Ismael Aranda

Funding institution or bodies: Ministerio de Ciencia e Innovación **Type of institution:** Ministry

City: Madrid, Community of Madrid, Spain

Start-End date: 2012 - 2014
- 4** **Name of the project:** SUSTAINPINE, Genomic tools in maritime pine for enhanced biomass production and sustainable forest management (PLE2009-0016)

Role: Researcher



Institution where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

Type of institution: Public Research Body

Head(s) researcher(s): Francisco M Cánovas Ramos

Funding institution or bodies:

European Union through the programm PLANT-KBBE 2009

Start-End date: 2010 - 2013

- 5 Name of the project:** "Desarrollo de un mapa genético de alta densidad de Pinus pinaster Ait. basado en SNPs y su empleo en el análisis de QTIs que controlan la respuesta a estrés hídrico" (MAPINSEQ)

Role: Researcher

Institution where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

Type of institution: Public Research Body

Head(s) researcher(s): M Teresa Cervera

Funding institution or bodies:

Spanish Ministry of Science and Innovation

Start-End date: 2010 - 2012

- 6 Name of the project:** HIDROFOR: Estudio de la respuesta a sequía de Pinus pinaster Ait. utilizando aproximaciones genómicas y ecofisiológicas" (AGL 2006-03242)

Role: Researcher

Institution where project took place: Universidad Politécnica de Madrid

Type of institution: University

Head(s) researcher(s): Álvaro Soto de Viana

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City: Spain

Start-End date: 2006 - 2009

Total amount: 243.210

- 7 Name of the project:** Red sobre restauración del medio natural REMEDINAL" (S-0505/AMB/0355)

Role: Researcher

Institution where project took place: Universidad Rey Juan Carlos

Type of institution: University

Head(s) researcher(s): Adrian Escudero

Funding institution or bodies:

Government of the Autonomous Community of Madrid

Start-End date: 2006 - 2009

Total amount: 900.000

- 8 Name of the project:** Restauración ecológica de áreas degradadas en ambientes mediterráneos continentales. Optimización del uso del agua" (CGL2004-00355/BOS)

Role: Researcher

Institution where project took place: Universidad de Alcalá

Type of institution: University

Head(s) researcher(s): José María Rey Benayas

Funding institution or bodies:

Comisión Interministerial de Ciencia y Tecnología

Type of institution: Ministerio

City: Madrid, Community of Madrid, Spain



Start-End date: 2004 - 2007

9 Name of the project: Developing Single Nucleotide Polymorphic (SNP) Markers for Adaptive Variation in Forest Trees (QLK3-CT2002-01973)

Role: Researcher

Institution where project took place: Centro de Investigación Forestal

Type of institution: Public Research Body

Head(s) researcher(s): M Teresa Cervera

Funding institution or bodies:

European Union

Type of institution: European Union

Start-End date: 2002 - 2007

10 Name of the project: Plasticidad fenotípica y tolerancia al estrés hídrico en dos especies forestales: caracterización ecofisiológica a distintos niveles genéticos" (PLASTOFOR, AGL2004-00536/FOR)

Role: Current university student

Institution where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

Type of institution: Public Research Body

Head(s) researcher(s): Ismael Aranda

Funding institution or bodies:

Ministerio de Ciencia y Tecnología

Start-End date: 2004 - 2006

11 Name of the project: Influence of leaf shape and size on the relative investment of biomass in support (2004EN0001)

Role: Current university student

Institution where project took place: Centro de Ciencias Medioambientales

Type of institution: State agency

Head(s) researcher(s): Ülo Niinemets; Fernando Valladares

Funding institution or bodies:

Stonian Academy of Sciences

Consejo Superior de Investigaciones Científicas

Type of institution: State agency

City: Madrid, Community of Madrid, Spain

Start-End date: 2004 - 2005

12 Name of the project: Cambio global y respuesta vegetal: bases ecofisiológicas para la conservación de la diversidad de árboles y arbustos mediterráneos ECOFIARB, Ref (REN2000-0163-04-05)

Role: Current university student

Institution where project took place: Consejo Superior de Investigaciones Científicas

Type of institution: State agency

Head(s) researcher(s): Fernando Valladares

Funding institution or bodies:

Ministerio de Ciencia y Tecnología

Start-End date: 2001 - 2003

Total amount: 84.141

13 Name of the project: "Efecto del fuego, luz y agua sobre la dinámica de Quercus robur y Q. pyrenaica en Galicia: modelos y aplicaciones" (PGIDT00MAM50202PR)

Role: Current university student

Type of institution: University



Institution where project took place: Universidade de Vigo

Head(s) researcher(s): Antonio Gallardo

Funding institution or bodies:

Xunta de Galicia

Start-End date: 2000 - 2002

Participation in R&D&I non-competitive projects, contracts or agreements with administrations or public or private bodies

- 1 Name of the project:** "EPINEA, Estudio de la variabilidad epigenética de Pinus pinea y su papel en el control molecular de la respuesta adaptativa (EPINEA) Estudio de la variabilidad epigenética de Pinus pinea y su papel en el control molecular de la respuesta adaptativa" (SUM 2008-05)

Role: Researcher

Head researcher: M Teresa Cervera

Participating bodies: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

Funding institution or bodies: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

Type of institution: Public Research Body

City: Madrid, Community of Madrid, Spain

Start date: 2009

Duration of project: 2 years
- 2 Name of the project:** Impact of growth irradiance on the short- and long-term temperature-dependence of leaf respiration: a study comparing responses of three evergreen tree species

Role: Current university student

Head researcher: Owen K Atkin

Funding institution or bodies: University of York

Type of institution: University

City: York, United Kingdom

Start date: 2004
- 3 Name of the project:** Bases para la gestión sostenible de las masas de Pinus pinea L. en la Península Ibérica: modelos ecológico-selvícolas, diversidad genética y valoración económica y social de las producciones. Subproyecto 3: Diversidad y estructura genética de poblaciones de pino piñonero sometidas a distintos modelos de gestión selvícola. Aplicación de la genómica en la selección precoz a caracteres adaptativos (CPE 03-001C5-3)

Role: Researcher

Head researcher: Gregorio Montero Gonzalez; M Teresa Cervera

Participating bodies: CNRS (France); CSIC; Centre Tecnològic Forestal de Catalunya; ETSI Montes (UPM); Instituto de Recursos Naturales y Agrobiología de Salamanca ; ISA (Portugal); Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria ; Junta de Castilla y León; UCM; UHU; Universidad de León; University of Davis /USDA (USA)

Funding institution or bodies: INIA (MICYT)

Start date: 2004

Duration of project: 4 years
- 4 Name of the project:** Diurnal and seasonal dynamics of leaf hydraulic conductance for temperate deciduous trees

Role: Current university student

Head researcher: Lawren Sack

**Funding institution or bodies:**

Harvard University

City: Boston, United States of America**Start date:** 2002**Type of institution:** University

- 5 Name of the project:** Impacts of leaf damage on hydraulic and photosynthetic function for leaves with contrasting venation architecture

Role: Current university student**Head researcher:** Lawren Sack**Funding institution or bodies:**

Harvard University

City: Boston, United States of America**Start date:** 2002**Type of institution:** University

- 6 Name of the project:** Flora amenazada de Navarra

Role: Current university student**Head researcher:** Fernando Valladares**Participating bodies:** CSIC; Government of Navarra**Start date:** 2000**Total amount:** 35.000**Duration of project:** 3 years

Scientific and technological activities

Scientific production

H index: 14**Date:** 19/12/2014

Publications, scientific and technical documents

- 1** Ismael Aranda; Francisco Javier Cano; Antonio Gascó; Hervé Cochard; Andrea Nardini; Jose Antonio Mancha; Rosana López; David Sánchez-Gómez. Variation in photosynthetic performance and hydraulic architecture across European beech (*Fagus sylvatica* L.) populations supports the case for local adaptation to water stress. *Tree Physiology*. doi:10.1093/treephys/tpu101, 2015. Available online at: <<http://treephys.oxfordjournals.org/content/early/2014/12/22/treephys.tpu101.full.pdf+html?sid=cc6b70dc-735f-4074-8473-0d695bea4562>>.

Type of production: Articles in the press**Format:** Journal**Impact source:** ISI**Category:** Forestry**Impact index:** 3.405**Journal in the top 25%:** Yes

- 2** Enrique Sáez-Laguna; M. Ángeles Guevara; Luis M. Díaz; David Sánchez-Gómez; Carmen Collada; Ismael Aranda; M. Teresa Cervera. Epigenetic Variability in the Genetically Uniform Forest Tree Species *Pinus pinea* L. *PLoS One*. 9 - 8, pp. e103145. 2014.

Type of production: Article**Format:** Journal**Impact source:** ISI**Category:** Multidisciplinary**Impact index:** 3.534**Journal in the top 25%:** Yes



- 3** Marina de Miguel; Jose A. Cabezas; Nuria de María; David Sánchez-Gómez; M. Ángeles Guevara; M. Dolores Vélez; Enrique Sáez-Laguna; Luis M. Díaz; José A. Mancha; M. Carmen Barbero; Carmen Collada; Carmen Díaz-Sala; Ismael Aranda; M. Teresa Cervera. Genetic control of functional traits related to photosynthesis and water use efficiency in response to drought in *Pinus pinaster* Ait. *BCM Genomics*. 15, pp. 464. 2014.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Genetics and Heredity
Impact index: 4.04 **Journal in the top 25%:** Yes
- 4** Estrella Cadahía; Brígida Fernández de Simón; Ismael Aranda; Miriam Sanz; David Sánchez-Gómez; Ernani Pinto. Non-targeted metabolomic profile of *Fagus sylvatica* L. leaves using liquid chromatography with mass spectrometry and gas chromatography with mass spectrometry. *Phytochemical Analysis*. doi: 10.1002/pca.254, 2014.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Plant Sciences
Impact index: 2.45 **Journal in the top 25%:** No
Position: 53 **No. of journals in the cat.:** 199
- 5** José A. Ramírez-Valiente; Fernando Valladares; David Sánchez-Gómez; Antonio Delgado; Ismael Aranda. Population variation and natural selection on leaf traits in cork oak throughout its distribution range. *Acta Oecologica*. 15 - 58, pp. 49 - 56. 2014.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Ecology
Impact index: 1.783 **Journal in the top 25%:** No
- 6** David Sánchez-Gómez; T Matthew Robson; Antonio Gascó; Eustaquio Gil-Pelegri; Ismael Aranda. Differences in the leaf functional traits of six beech (*Fagus sylvatica* L.) populations are reflected in their response to water limitation. *Environmental and Experimental Botany*. 87, pp. 110 - 119. 2013.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Plant Science
Impact index: 3.003 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 6
- 7** F Javier Cano; David Sánchez-Gómez; Jesús Rodríguez-Calcerrada; Charles R Warren; Luis Gil; Ismael Aranda. Effects of drought on mesophyll conductance and photosynthetic limitations at different tree canopy layers. *Plant, Cell and Environment*. 36 - 11, pp. 1961 - 1980. 2013.
Type of production: Article **Category:** Plant Science
Impact source: ISI **Quotes:** 8
Impact index: 5.906
Source of quotes: WOS
- 8** Marina de Miguel; Nuria de María; M Ángeles Guevara; Luis Díaz; Enrique Sáez-Laguna; David Sánchez-Gómez; E Chancerell; Ismael Aranda; Carmen Collada; C Plomion; Jose Antonio Cabezas; M Teresa Cervera. Annotated genetic linkage maps of *Pinus pinaster* Ait. From a Central Spain population using microsatellite and gene based markers. *BCM Genomics*. 13, pp. 527. 2012.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Genetics and Heredity
Impact index: 4.04 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 3

- 9** Ismael Aranda; Jesús Rodríguez-Calcerrada; T Matthew Robson; F Javier Cano; Luis Alté; David Sánchez-Gómez. Stomatal and non-stomatal limitations on leaf carbon assimilation in beech (*Fagus sylvatica* L.) seedlings enduring moderate water stress under natural conditions. *Forest Systems*. 21 - 3, pp. 405 - 417. 2012.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Forestry
Impact index: 0.620 **Journal in the top 25%:** No
Source of quotes: WOS **Quotes:** 2
- 10** T Matthew Robson; David Sánchez-Gómez; Francisco Javier Cano; Ismael Aranda. Variation in functional leaf traits among beech provenances during a Spanish summer reflects the differences in their origin. *Tree Genetics and Genomes*. 8, pp. 1111 - 1121. 2012.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Forestry
Impact index: 2.435 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 9
- 11** David Sánchez-Gómez; Tania Velasco-Conde; Francisco Javier Cano-Martín; M Ángeles Guevara; M Teresa Cervera; Ismael Aranda. Inter-clonal variation in functional traits in response to drought for a genetically homogeneous Mediterranean conifer. *Environmental and Experimental Botany*. 70, pp. 104 - 109. 2011.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Plant Science
Impact index: 3.003 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 14
- 12** Marina de Miguel; David Sánchez-Gómez; M Teresa Cervera; Ismael Aranda. Functional and genetic characterization of gas exchange and intrinsic water use efficiency in a full-sib family of *Pinus pinaster* Ait. in response to drought. *Tree Physiology*. 32, pp. 94 - 103. 2011.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Forestry
Impact index: 3.405 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 7
- 13** Francisco Javier Cano; David Sánchez-Gómez; Antonio Gascó; Jesús Rodríguez-Calcerrada; Luis Gil; Charles R Warren; Ismael Aranda. Light acclimation at the end of the growing season in two broadleaved oak species. *Photosynthetica*. 49 - 4, pp. 581 - 592. 2011.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Plant Science
Impact index: 1.007 **Journal in the top 25%:** No
Source of quotes: WOS **Quotes:** 2
- 14** David Sánchez-Gómez; Juan Majada; Ricardo Alía; Ismael Aranda. Intraspecific variation in growth and allocation patterns in seedlings of *Pinus pinaster* Ait. submitted to contrasting watering regimes: can water availability explain regional variation?. *Annals of Forest Science*. 67 - 5, pp. 505. 2010.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Forestry

**Impact index:** 1.536**Position:** 17**Source of quotes:** WOS**No. of journals in the cat.:** 62**Quotes:** 11

- 15** José Alberto Ramírez-Valiente; David Sánchez-Gómez; Ismael Aranda; Fernando Valladares. Phenotypic plasticity and local adaptation in leaf ecophysiological traits of 13 contrasting cork oak populations under different water availabilities. *Tree Physiology*. 30 - 5, pp. 618 - 627. 2010.

Type of production: Article**Impact source:** ISI**Impact index:** 3.405**Source of quotes:** WOS**Format:** Journal**Category:** Forestry**Journal in the top 25%:** Yes**Quotes:** 28

- 16** T Matthew Robson; Jesús Rodríguez-Calcerrada; David Sánchez-Gómez; Ismael Aranda. Summer drought impedes beech seedling performance more in a sub-Mediterranean forest understory than in small gaps. *Tree Physiology*. 29 - 2, pp. 249 - 259. 2009.

Type of production: Article**Impact source:** ISI**Impact index:** 3.405**Source of quotes:** WOS**Format:** Journal**Category:** Forestry**Journal in the top 25%:** Yes**Quotes:** 16

- 17** Fernando Valladares; Joana Zaragoza-Castells; David Sánchez-Gómez; Silvia Matesanz; Beatriz Alonso; Angelica Portsmouth; Antonio Delgado; Owen K Atkin. Is shade beneficial for Mediterranean shrubs experiencing periods of extreme drought and late-winter frost?. *Annals of Botany*. 102 - 6, pp. 923 - 933. 2008.

Type of production: Article**Impact source:** ISI**Impact index:** 3.295**Source of quotes:** WOS**Format:** Journal**Category:** Plant Science**Journal in the top 25%:** Yes**Quotes:** 40

- 18** Lawren Sack; E M Dietrich; C M Streeter; David Sánchez-Gómez; Noel Michele Holbrook. Leaf palmate venation and vascular redundancy confer tolerance of hydraulic disruption. *Proceedings of the National Academy of Sciences*. 105 - 5, pp. 1567 - 1572. 2008.

Type of production: Article**Impact source:** ISI**Impact index:** 9.809**Source of quotes:** WOS**Format:** Journal**Category:** Multidisciplinary**Quotes:** 52

- 19** Joana Zaragoza-Castells; David Sánchez-Gómez; Iain P Hartley; Silvia Matesanz; Fernando Valladares; J Lloyd; Owen K Atkin. Climate-dependent variations in leaf respiration in a dry-land, low productivity Mediterranean forest: the importance of acclimation in both high-light and shaded habitats. *Functional Ecology*. 22, pp. 172 - 184. 2008.

Type of production: Article**Impact source:** ISI**Impact index:** 4.861**Source of quotes:** WOS**Format:** Journal**Category:** Ecology**Journal in the top 25%:** Yes**Quotes:** 22



- 20** David Sánchez-Gómez; Miguel A Zavala; Fernando Valladares. Functional traits and plasticity linked to seedlings' performance under shade and drought in Mediterranean woody species. *Annals of Forest Science*. 65 - 3, pp. 311. 2008.
- Type of production:** Article
Impact source: ISI
Impact index: 1.536
Position: 17
Source of quotes: WOS
- Format:** Journal
Category: Forestry
No. of journals in the cat.: 62
Quotes: 12
- 21** David Sánchez-Gómez; Miguel A Zavala; D B Schalkwijk; Itziar R Urbieta; Fernando Valladares. Rank reversals in tree growth along tree size, competition and climatic gradients for four forest canopy dominant species in Central Spain. *Annals of Forest Science*. 65 - 6, pp. 605. 2008.
- Type of production:** Article
Impact source: ISI
Impact index: 1.536
Position: 17
Source of quotes: WOS
- Format:** Journal
Category: Forestry
Journal in the top 25%: Yes
No. of journals in the cat.: 62
Quotes: 9
- 22** Joana Zaragoza-Castells; David Sánchez-Gómez; Fernando Valladares; V M Hurry; Owen K Atkin. Does growth irradiance affect temperature dependence and thermal acclimation of leaf respiration? *Insights from a Mediterranean tree with long lived-leaves*. *Plant, Cell and Environment*. 30, pp. 820 - 833. 2007.
- Type of production:** Article
Impact source: ISI
Impact index: 5.906
Source of quotes: WOS
- Format:** Journal
Category: Plant Science
Journal in the top 25%: Yes
Quotes: 33
- 23** David Sánchez-Gómez. Respuesta de plántulas leñosas mediterráneas a la disponibilidad de luz y agua en condiciones experimentales. *Ecosistemas*. 2007/1, 2007.
- Type of production:** Article
- Format:** Journal
- 24** Fernando Valladares; David Sánchez-Gómez. Ecophysiological traits associated with drought in Mediterranean tree seedlings: individual responses versus interspecific trends in eleven species. *Plant Biology*. 8 - 5, pp. 688 - 697. 2006.
- Type of production:** Article
Impact source: ISI
Impact index: 2.405
Source of quotes: WOS
- Format:** Journal
Category: Plant Science
Journal in the top 25%: Yes
Quotes: 44
- 25** David Sánchez-Gómez; Fernando Valladares; Miguel A Zavala. Functional traits and plasticity in response to light in seedlings of four Iberian forest tree species. *Tree Physiology*. 26, pp. 1425 - 1433. 2006.
- Type of production:** Article
Impact source: ISI
Impact index: 3.405
Source of quotes: WOS
- Format:** Journal
Category: Forestry
Journal in the top 25%: Yes
Quotes: 37

- 26** David Sánchez-Gómez; Fernando Valladares; Miguel A Zavala. Performance of seedlings of Mediterranean woody species under experimental gradients of irradiance and water availability: trade-offs and evidences for niche differentiation. *New Phytologist*. 170 - 4, pp. 795 - 805. 2006.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Plant Science
Impact index: 6.545 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 85
- 27** Fernando Valladares; David Sánchez-Gómez; Miguel A Zavala. Quantitative estimation of phenotypic plasticity: bridging the gap between the evolutionary concept and its ecological applications. *Journal of Ecology*. 94 - 6, pp. 1103 - 1116. 2006.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Ecology
Impact index: 5.694 **Journal in the top 25%:** Yes
Source of quotes: WOS **Quotes:** 161
- 28** David Sánchez-Gómez; Miguel A Zavala; Fernando Valladares. Seedling survival responses to irradiance are differentially influenced by low-water availability in four tree species of the Iberian cool temperate-Mediterranean ecotone. *Acta Oecologica*. 30, pp. 322 - 332. 2006.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Ecology
Impact index: 1.783 **Journal in the top 25%:** No
Source of quotes: WOS **Quotes:** 26
- 29** David Sánchez-Gómez. Respuesta de plántulas leñosas mediterráneas a la disponibilidad de luz y agua en condiciones experimentales. Tesis Doctoral. Universidad Complutense de Madrid, 2006.
Type of production: Memoria de Tesis **Format:** Book
- 30** Fernando Valladares; David Sánchez-Gómez; Miguel A Zavala. Intra vs. Interspecific traits associated with water stress in tree seedlings. Do they match?. *Comparative biochemistry and physiology a-molecular & integrative physiology*. 141 - 3, pp. S303 - S303. 2005.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Physiology
Impact index: 2.371 **Journal in the top 25%:** No
- 31** Fernando Valladares; Iker Dobarro; David Sánchez-Gómez; Robert W Pearcy. Photoinhibition and drought in Mediterranean woody saplings: scaling effects and interactions in sun and shade phenotypes. *Journal of Experimental Botany*. 56, pp. 483 - 494. 2005.
Type of production: Article **Format:** Journal
Impact source: ISI **Category:** Plant Science
Impact index: 5.794 **Quotes:** 78
Source of quotes: WOS
- 32** Fernando Valladares; Sagrario Arrieta; Ismael Aranda; David Lorenzo; David Tena; David Sánchez-Gómez; Francisco Suárez; José Alberto Pardos. Shade tolerance, photoinhibition sensitivity and phenotypic plasticity of *Ilex aquifolium* in continental-Mediterranean sites. *Tree Physiology*. 25, pp. 1041 - 1052. 2005.
Type of production: Article **Format:** Journal



Impact source: ISI
Impact index: 3.405

Source of quotes: WOS

Category: Forestry
Journal in the top 25%: Yes

Quotes: 51

- 33** Fernando Valladares; Ismael Aranda; David Sánchez-Gómez. La luz como factor ecológico y evolutivo para las plantas y su interacción con el agua. Ecología del bosque mediterráneo en un mundo cambiante. pp. 110 - 150. 2004.
Type of production: Chapters of books **Format:** Book
- 34** Blanca Sastre; María Vázquez; David Sánchez-Gómez; David Tena; Eduardo Úbeda; José Luis Sánchez-Aras; José Manuel de Miguel. Análisis de contenidos de la revista Quercus. Quercus. 226, pp. 55 - 60. 2004.
Type of production: Article **Format:** Journal

Work presented in conferences at the national or international level

- 1** **Title:** Genetic control of functional traits related to photosynthesis and water use efficiency in *Pinus pinaster* Ait. drought response: integration of genome annotation, allele association and QTL detection for candidate gene identification
Name of the conference: XII Portuguese-Spanish Symposium on Plant Water Relations: Water to Feed the World
City: Évora, Portugal
Date: 30/09/2014
End date: 03/10/2014
Marina de Miguel; Jose Antonio Cabezas; Nuria de María; David Sánchez-Gómez; M Ángeles Guevara; M Dolores Vélez; Enrique Sáez-Laguna; Luis M Díaz; Jose Antonio Mancha; María Carmen Barbero; Carmen Collada; Carmen Díaz-Sala; Ismael Aranda; M Teresa Cervera. "Conference Proceedings".
- 2** **Title:** Interaction of light and water stress on the ecophysiological response of *Nothofagus antarctica* (G. Foster) Oerst.
Name of the conference: XII Portuguese-Spanish Symposium on Plant Water Relations: Water to Feed the World
City: Évora, Portugal
Date: 30/09/2014
End date: 03/10/2014
Héctor A Bahamonde; David Sánchez-Gómez; J Gyenge; P L Peri; Ismael Aranda. "Conference Proceedings".
- 3** **Title:** Analysis of adaptive responses of *Pinus pinaster* to changing environmental conditions in the Mediterranean region
Name of the conference: IUFRO Tree Biotechnology Conference
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Poster
Date: 2011
City: Arraial D' Ajuda, Bahía, Brazil
Marina de Miguel; Ángeles Guevara; Nuria de María; Enrique Sáez; Luis Díaz; Carmen Collada; Álvaro Soto; Pedro Perdiguero; José Antonio Cabezas; David Sánchez-Gómez; Ismael Aranda; M Teresa Cervera.



- 4** **Title:** DNA methylation and adaptive response in forest tree species
Name of the conference: IUFRO Tree Biotechnology Conference
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Poster
Date: 2011
City: Arraial D' Ajuda, Bahía, Brazil
Ángeles Guevara; Enrique Sáez; Luis Díaz; T Herranz; Carmen Barbero; Dolores Vélez; Carmen Collada; David Sánchez-Gómez; Ismael Aranda; M Teresa Cervera.
- 5** **Title:** Dissection of adaptive responses to drought in *Pinus pinaster* Ait: functional and genetic approaches
Name of the conference: 12th Ecological European Federation Congress
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Speaker
City: Ávila, Castile and León, Spain
Date: 2011
Marina de Miguel; David Sánchez-Gómez; M Ángeles Guevara; Nuria de María; Luis Díaz; Enrique Sáez; M Carmen Barbero; José Antonio Cabezas; Ismael Aranda; M Teresa Cervera.
- 6** **Title:** Inter-population variation in functional traits of *Fagus sylvatica* L. in response to an experimental water deficit
Name of the conference: 12th Ecological European Federation Congress
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Poster
City: Ávila, Castile and León, Spain
Date: 2011
David Sánchez-Gómez; Antonio Gascó; T Matthew Robson; Eustaquio Gil-Pelegrín; Ismael Aranda.
- 7** **Title:** Provenance variation in beech leaf morphological and physiological traits
Name of the conference: Cost E52 Final Meeting
Type of event: Conference **Field of the conference:** European Union
Type of participation: Speaker
City: Burgos, Castile and León, Spain
Date: 04/05/2010
End date: 06/05/2010
T. Matthew Robson; M. Zitová; David Sánchez-Gómez; O. Urban; M. Forstrueter; L. Mészáros; Ismael Aranda.
- 8** **Title:** Differences in leaf water potentials among four populations of European beech (*Fagus sylvatica*) under controlled conditions
Name of the conference: X Symposium Hispano-Portugués de Relaciones Hídricas en las Plantas
Type of event: Workshop **Field of the conference:** European Union
Type of participation: Speaker
City: Cartagena, Spain
Date: 2010
T Matthew Robson; F Wang; David Sánchez-Gómez; Ismael Aranda; Pedro J Aphalo.
- 9** **Title:** Genetic control of ecophysiological traits under water stress in a full-sib family of *Pinus pinaster* Ait
Name of the conference: X Symposium Hispano-Portugués de Relaciones Hídricas en las Plantas
Type of event: Workshop **Field of the conference:** European Union
Type of participation: Speaker
City: Cartagena, Region of Murcia, Spain



Date: 2010

Marina de Miguel; David Sánchez-Gómez; M Teresa Cervera; Ismael Aranda.

10 Title: Estudio de la foto-aclimatación del sistema hidráulico y del intercambio gaseoso en brinzales de roble albar y roble melojo cultivados en solución hidropónica

Name of the conference: 5º Congreso Forestal Español, Montes y sociedad: saber que hacer

Type of event: Conference

Field of the conference: National

Type of participation: Poster

City: Ávila, Castile and León, Spain

Date: 21/09/2009

End date: 25/09/2009

Francisco Javier Cano; David Sánchez-Gómez; Antonio Gascó; Ismael Aranda.

11 Title: Variabilidad fenotípica en respuesta al estrés hídrico en una especie forestal genéticamente homogénea: Pinus pinea L

Name of the conference: 5º Congreso Forestal Español, Montes y sociedad: saber que hacer

Type of event: Conference

Field of the conference: National

Type of participation: Poster

City: Ávila, Castile and León, Spain

Date: 21/09/2009

End date: 25/09/2009

David Sánchez-Gómez; Francisco Javier Cano; M Teresa Cervera; Ismael Aranda.

12 Title: The interaction of water stress and shade determines the physiological response of seedlings to summer drought in a marginal spanish beech forest

Name of the conference: 8th IUFRO Internacional beech symposium

Type of event: Conference

Field of the conference: Non EU International

Type of participation: Poster

City: Hokkaido, Japan

Date: 08/09/2008

End date: 10/09/2008

Organising institution: IUFRO

T Matthew Robson; Jesús Rodríguez-Calcerrada; David Sánchez-Gómez; Francisco Javier Cano; Ismael Aranda.

13 Title: Response of mesophyll conductance to light acclimation in seedlings of two co-occurring temperate oaks

Name of the conference: BES Annual Meeting

Type of event: Conference

Field of the conference: Non EU International

Type of participation: Poster

City: Hatfield, United Kingdom

Date: 03/09/2008

End date: 05/09/2008

Organising institution: British Ecological Society

Francisco Javier Cano; David Sánchez-Gómez; Ismael Aranda; Luis Gil.

14 Title: Tree seedlings exhibit contrasting response mechanisms to shade-drought stress combinations under controlled conditions

Name of the conference: BES Annual Meeting

Type of event: Conference

Field of the conference: Non EU International

Type of participation: Speaker



City: Hatfield, United Kingdom

Date: 03/09/2008

End date: 05/09/2008

Organising institution: British Ecological Society

T Matthew Robson; Ismael Aranda; David Sánchez-Gómez; Jesús Rodríguez-Calcerrada.

15 Title: Modelos de crecimiento para las principales especies forestales de la Comunidad de Madrid: diferencias interespecíficas en respuesta al tamaño, la competencia y factores ambientales

Name of the conference: II Congreso Nacional de Modelización Forestal

Type of event: Conference

Field of the conference: National

Type of participation: Speaker

City: Jarandilla de la Vera, Extremadura, Spain

Date: 09/05/2007

End date: 11/05/2007

Organising institution: Sociedad Española de Ciencias Forestales y Universidad de Extremadura
David Sánchez-Gómez; Miguel A Zavala; D B Schalkwijk; Itziar R Urbietta; Fernando Valladares.

16 Title: How do palmate and pinnate leaf venation systems differ in function? Divergent in the impacts of damage on hydraulics and gas exchange

Name of the conference: XVII International Botanical Congress

Type of event: Conference

Field of the conference: Non EU International

Type of participation: Speaker

City: Viena, Austria

Date: 2005

Lawren Sack; E M Dietrich; C M Streeter; David Sánchez-Gómez; Noel Michele Holbrook.

17 Title: Intra vs. interspecific traits associated with water stress in tree seedlings: Do they match?

Name of the conference: Annual Meeting of the Society for Experimental Biology

Type of event: Conference

Field of the conference: Non EU International

Type of participation: Speaker

City: Barcelona, Catalonia, Spain

Date: 2005

Organising institution: Society for Experimental Biology

Fernando Valladares; David Sánchez-Gómez. En: *Annual Meeting of the Society for Experimental Biology P9.13.*

18 Title: Respuestas de Quercus y Pistacia a la radiación intensa y a la sequía: implicaciones para la regeneración natural en un clima cambiante

Name of the conference: 4º Congreso Forestal Español

Type of event: Conference

Field of the conference: National

Type of participation: Poster

City: Zaragoza, Aragon, Spain

Date: 2005

Fernando Valladares; Iker Dobarro; David Sánchez-Gómez; Robert W Pearcy.

19 Title: Survival in the shade versus maximal growth in the sun: does this general trade-off operate in seedlings of Mediterranean woody species

Name of the conference: La unidad en la diversidad, un Congreso de Ecología tras el legado de Ramón Margalef

Type of event: Conference

Field of the conference: Non EU International

Type of participation: Poster



City: Barcelona, Catalonia, Spain

Date: 2005

David Sánchez-Gómez; Fernando Valladares; Miguel A Zavala.

- 20** **Title:** Temperature responses of leaf respiration in a Mediterranean plant species: Constrasting the responses of sun versus shade leaves
Name of the conference: Annual Meeting of the Society for Experimental Biology
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Speaker
City: Barcelon, Catalonia, Spain
Date: 2005
Organising institution: Society for Experimental Biology
Joana Zaragoza-Castells; David Sánchez-Gómez; Owen K Atkin. En: *Annual Meeting of the Society for Experimental Biology P7.23.*
- 21** **Title:** Interactions between plastic responses to light and water availability in experiments with tree seedlings
Name of the conference: 10' Medecos- Internacional Conference on Ecology, Conservation and Management
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Poster
City: Isla de Rhodas, Greece
Date: 2004
David Sánchez-Gómez; Fernando Valladares; Miguel A Zavala.
- 22** **Title:** Photoinhibition and water stress in Mediterranean woody seedlings: estimating effects in sun and shade phenotypes
Name of the conference: Society for Experimental Biology Annual Meeting
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Speaker
City: Edimburgo, United Kingdom
Date: 2004
Organising institution: Society for Experimental Biology
Fernando Valladares; David Sánchez-Gómez; Iker Dobarro.
- 23** **Title:** Plasticidad ante la luz: ¿Ser o no ser?
Name of the conference: VII Congreso Nacional de la Asociación Española de Ecología Terrestre
Field of the conference: National
Type of participation: Poster
City: Bellaterra, Barcelona, Catalonia, Spain
Date: 2003
Organising institution: Asociación Española de Ecología Terrestre
David Sánchez-Gómez; Fernando Valladares; Miguel A Zavala.
- 24** **Title:** Differential survival to drought and shade of two pines and two oaks: linking leaf physiology to whole-plant performance
Name of the conference: Internacional Medpine 2
Type of event: Conference **Field of the conference:** Non EU International
Type of participation: Poster
City: Chania, Creta, Greece
Date: 2002



David Sánchez-Gómez; Fernando Valladares; Miguel A Zavala.

Work presented in national or international conferences, seminars, workshops and/or courses

- 1** **Title:** Variabilidad interpoblacional en la respuesta funcional del haya a la sequía
Name of the event: III Coloquio de Primavera sobre Ecofisiología Forestal
City: La Farga del Montseny, Barcelona, Catalonia, Spain
Date: 26/06/2013
End date: 28/06/2013
David Sánchez-Gómez; M Ángeles Guevara; J Antonio Mancha; M Dolores Vélez; Luis M Díaz; M Teresa Cervera; Brígida Fernández de Simón; Estrella Cadahía; Ismael Aranda.
- 2** **Title:** Caracterización genética y funcional de Pinus pinaster Ait. en respuesta a la sequía: mapeo de QTLs
Name of the event: I Coloquio de Primavera sobre Ecofisiología Forestal
City: Espejo, Álava, Basque Country, Spain
Date: 01/04/2011
End date: 03/04/2011
Marina de Miguel; David Sánchez-Gómez; M Teresa Cervera; Ismael Aranda.
- 3** **Title:** Practical use of phenotypic plasticity indices
Name of the event: COST E52-190109-05357 Working Meeting, session: Background information on beech phenology and phenotypic plasticity”
Type of event: Workshop
City: Valsaín, Castile and León, Spain
Date: 19/01/2009
End date: 23/01/2009
Organising institution: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria
Type of institution: Public Research Body
David Sánchez-Gómez.
- 4** **Title:** Seedlings’ traits related to shade and drought tolerance
Name of the event: Ciclo de seminarios de la reunión final del proyecto GLOBIMED
Type of event: Ciclo de seminarios
Field of the event: Non EU International
City: Jarandilla de la Vera, Extremadura, Spain
Date: 27/11/2005
End date: 29/11/2005
Organising institution: Network Globimed
Type of institution: Network
David Sánchez-Gómez.



Experience in R&D&I management and participation in scientific committees

Experience in assessment and review of R&D&I projects and articles

Name of the activity: Referee of Research Journals

Responsibility held: Referee

Organising institution: Functional Ecology, Tree Physiology, European Journal of Forest Research, Annals of Forest Science and New Forests

Start date: 2006

Other achievements

Stays in public or private R&D&I centres

- 1** **institution:** University of York
City: York, United Kingdom
Start-End date: 15/05/2004 - 15/08/2004 **Duration:** 3 months
Aims of the stay: Doctorate
Provable tasks: Participation in a Project to assess the impact of growth irradiance on the short- and long term temperature-dependence of leaf respiration
- 2** **institution:** Harvard University **Type of institution:** University
City: Petersham, Boston, United States of America
Start-End date: 01/06/2002 - 01/08/2002 **Duration:** 2 months
Aims of the stay: Doctorate
Provable tasks: Participation in two projects related to leaf hydraulics and hydraulic architecture of different hardwood species of the temperate forest
- 3** **institution:** Centro de Ciencias Medioambientales **Type of institution:** State agency
City: Madrid, Community of Madrid, Spain
Start-End date: 01/02/1999 - 01/02/2001
Aims of the stay: Student internship
Provable tasks: Participation in experiments and learning of methodological skills in Plant Physiology and Functional Ecology

Grants and scholarships obtained

- 1** **Name of the grant:** "Juan de la Cierva" Program
Aims: Post-doctoral
Conferring institution: Ministerio de Ciencia e Innovación. Investigación **Type of institution:** Ministry
Conferral date: 01/01/2008 **Duration of the grant:** 3 years
End date: 31/12/2010
Name of institution: Universidad Politécnica de Madrid
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Montes

**2 Name of the grant:** Fellowship (FPU program)**Aims:** Pre-doctoral**Conferring institution:** Spanish Ministry of Education, Culture and Sports**Type of institution:** Ministry**Conferral date:** 01/01/2001**Duration of the grant:** 4 years**End date:** 31/12/2005**Name of institution:** Consejo Superior de Investigaciones Científicas**3 Name of the grant:** Grant for the inscription to the postgraduate course: "Basic Methodologies for Functional and Evolutionary Ecology"**Aims:** Inscription to a course**Conferring institution:** Asociación Española de Ecología Terrestre**End date:** 12/07/2003**4 Name of the grant:** Fellowship "introduction to research"**Aims:** Introducción a la investigación**Conferring institution:** CSIC**Type of institution:** State agency**Conferral date:** 25/04/2001**Duration of the grant:** 3 months - 15 days**End date:** 31/12/2001**5 Name of the grant:** Fellowship**Aims:** Collaboration with a university department**Conferring institution:** Spanish Ministry of Education**Type of institution:** Ministry**Conferral date:** 09/2000**End date:** 15/07/2001**Name of institution:** Universidad Complutense de Madrid**Faculty, institute or centre:** Facultad de Ciencias Biológicas**6 Name of the grant:** Grant for the inscription to the conference: "Unity in diversity"**Aims:** conference inscription**Conferring institution:** Asociación Española de Ecología Terrestre**Conferral date:** 31/10/2005

Other types of collaboration with researchers or technologists from other prestigious, national or international, public or private R&D&I centres

Type of relationship: Supervision**Names of researchers:** David Sánchez-Gómez; José Alberto Ramírez-Valiente; Francisco Javier Cano; Marina de Miguel; Enrique Sáez-Laguna**Description of the collaboration:** Supervision of- and collaboration with pre-doctoral students**Participating bodies:**

Escuela Técnica Superior de Ingenieros de Montes UPM

Type of institution: University Centres and Structures and Associated Bodies**City:** Madrid, Community of Madrid, Spain

Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

Type of institution: Public Research Body**City:** Madrid, Community of Madrid, Spain**Start date:** 2007**Duration:** 5 years