

**Name:** Gonzalo Nieto Feliner

DNI (Spanish ID card): 05360222A Born: 4 Sept. 1958 (Madrid)

**Present position:**

Research professor of the Spanish Council for Scientific Research, CSIC (since 2003)

**Address:**

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**Education:**

Licenciado (B Sc). Universidad Complutense (Madrid), June 1980.

PhD in Biology (Botany). Universidad Complutense (Madrid), November 1984 [“A critical study of the orophilous flora of SW León: Montes Aquilianos, Sierra del Teleno y Sierra de la Cabrera” –published in *Ruizia* 2: 1-240. 1985].

**Research Interests**

Phylogeny and biosystematics of angiosperm groups using morphological and molecular data

Phylogeography of plant groups, particularly in the Mediterranean region

Evolutionary consequences of hybridization.

**Positions held:**

Research scientist (third level, “colaborador científico”, CSIC) 1986 - 1991.

Adjunct professor at the University of Nebraska, Lincoln, USA (Jan.-Dec. 1988).

Head of Department of Taxonomy and Ecology of Vascular Plants, RJB, CSIC (1990 -1993)

Research scientist (second level, “investigador científico”, CSIC) 1991 - 2002.

Vice-director for research of the RJB (1994 - 2006)

Research professor, CSIC (since 2003)

Director of the Royal Botanic Garden, Madrid, CSIC (2006 - 2014)

**Professional activities:**

*International Committees*

Member of the Karyosystematics commission of OPTIMA (Organization for the taxonomic research in the Mediterranean area) 1989 - 1992.

Member of the *Flora Europaea Trust Committee*, managed by the Linnean Society of London (2001-2003).

President of the *International Organization of Plant Biosystematics* (IOPB), 2004-2007.

Member of the Selection Panel for BIOD-IBERIA (2001 - 2003), a V<sup>th</sup> F.P. EU-funded programme within the “Improving Human Potential --Support for Access to Research Infrastructures” frame.

Member of the Selection Panel for “ESTAF-SYNTHESYS”, evaluating proposals for access grants within an integrated European infrastructure for researchers in the natural sciences (VI<sup>th</sup> F.P., EU, 2004 - 2008).

Member of the selection committee for postdoc positions (Botanical Garden, University of Lisbon, Portugal) 2007, 2008.

Vice-president of the Ibero-Macaronesian Association of Botanic Gardens (2006 - 2012)

External consultant to the Visiting Review of the Department of Botany of the Natural History Museum, London (2007).

Member of the Stebbins Medal Committee (2007 - 2011) from the International Association of Plant Taxonomy (IAPT), selecting outstanding papers to be awarded with the Stebbins medal (the rest of the committee integrated by Tod Stuessy, president, Dan Crawford, Loren Rieseberg and Pam Soltis).

Member of the External Advisory Committee of the Centre for Functional Ecology, Faculdade de Ciências e Tecnologia (University of Coimbra, Portugal) (since 2011, with reports elaborated in 2011 and 2017).

Member of the IAPT Council (International Association for Plant Taxonomy), 2011 - 2017.

Chair of the Research Improvement Grants Committee. International Association for Plant Taxonomy (IAPT), 2012-2017

Scientific expert for the Selection Committee of the *Plant Fellows* postdoctoral Fellowships (Univ. Basel, Univ. Zurich) (2012, 2013, 2014).

Member of the external evaluation committee of the Institute of Systematic Botany and Botanical Garden (University of Zurich) Committee members: Spencer C.H. Barret, Pamela Soltis, Markus Radsch, y G. Nieto Feliner) (2013).

Vicepresident of the IAPT (International Association for Plant Taxonomy), 2017 - 2023.

### *National Committees*

Member of selecting committees for permanent research positions in the Spanish National Research Council (CSIC): 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003.

Member of the Selection Panel for the Ramón y Cajal Research contracts (Spanish Ministry of Science and Technology) in 2003 and 2005.

Spanish Agency for Evaluation of Research Grants (ANEP): Adjunct to the Coordinator for the area of "Biology of Organisms and Systems". (2003 - 2006).

Member of the Commission for the Natural Resources Area of the Spanish National Research Council (CSIC), 2005 - 2008.

Member of Advisory Committee for Natural Resources and Environment for the Andalusian Evaluation Agency, selecting projects of excellence and support for research groups: 2006 - 2010.

Member of an expert panel assessing the elaboration of the National research and development plan in the field of Natural Resources (Plan Nacional I + D + I 2008-2011) (2007).

Member of the evaluation committee for research grants proposals presented to the Spanish National Research Plan in the Global Change and Biodiversity program (2002, 2011, 2012, 2015).

Member of the selection committee of the fellowships for the Master in natural protected areas (BBVA Foundation-Fundación Carolina; from 2016 onwards only BBVA foundation): 2009, 2010, 2011, 2012, 2013, 2014, 2016, 2017

Member of the selection committee of the BBVA Foundation Awards for outstanding actions in the conservation of biodiversity (two categories: Spain and Latin America) 2011, 2014.

### *Editorial Boards*

General Editor of the journal *Anales del Jardín Botánico* de Madrid (1990 - 1997)

Member of the Editorial Board of the *Flora iberica* project (1991-2003).

Member of the Advisory Editorial Board of the Journal *Folia Geobotanica* (Plenum Press) (2001-2012).

Member of the Editorial Board of the Journal *Plant Biosystems* (Taylor & Francis). (2004-2017).

Member of the Editorial Board of the Journal *ARBOR* (CSIC) since 2010.

Member of the Advisory Board of *Flora Mediterranea* since 2018.

Editor of a special Symposium in *Taxon* (vol. 45: 859-1007, 2005), "Plant evolution in the Mediterranean Climate zones".

Co-Editor of the "IOPB Column" in *Taxon* (2006 - 2008).

Guest Associate co-Editor de "Phylogenomic approaches to deal with particularly challenging plant lineages", a "research topic" in *Frontiers in Plant Sciences* (2018 - 2019).

### *Reviewer*

Reviewer of manuscripts for international journals (*Molecular Ecology, Evolution, Molecular Phylogenetics and Evolution, American Journal of Botany, Journal of Molecular Evolution, Journal of Biogeography, Perspectives in Plant Ecology Evolution and Systematics, Frontiers in Genetics, Journal of Evolutionary Biology, Journal of Systematics and Evolution, International Journal of Plant Sciences, Systematic Botany, Botanical Journal of the Linnean Society, AOB Plants, Taxon, Genes Genomes Genetics, Genetic Resources and Crop Evolution, Australian Systematic Botany, Plant Biology, Plant Ecology and Diversity, Evolutionary Ecology, Plant Systematics and Evolution, Plant Biosystems, Edinburgh Journal of Botany, PeerJ*, etc)

Reviewer of research grant proposals for:

- Spanish Agency for Evaluation of Research Grants (ANEP) (1995 to present, around 2-3 per year)
- Argentinean Ministry of Education (Agencia Nacional de Promoción Científica y Tecnológica) 2001-2005
- Italian Ministry of Education, Universities and Research (MUIR) 2002 - 2004
- National Science Foundation (NSF, EE.UU.) 2005
- Chilean Government (Fondo Nacional de Desarrollo Científico y Tecnológico), 2005
- Czech Science Foundation of the Czech Republic, 2009, 2011, 2016
- BBVA Foundation (Research Grants on Conservation Biology, 2004, 2005, 2007, 2008)
- Agency for Quality in the University System of the Castilla y León Region (2011)

Reviewer of postdoctoral contracts for the University of Liege within the FP7-people-COFUND program financed by the EU (2013).

### *Conference and Symposium organizer*

Organizer of the meeting: II Jornadas de Taxonomía Vegetal (Madrid, May 1990).

President of the organizing committee of the IX Meeting of the IOBP "Plant Evolution in Mediterranean Climate zones" (Valencia, May 2004).

Member of the organizing team as director of the institute/venue: 5<sup>th</sup> Meeting of the Global Plants Initiative (Madrid, April 2012)

Organizer of the Symposium "Hybridization and phylogenetic reconstruction" In the XIX International Botanical Congress (IBC), Shenzhen, China, 23-29th July 2017.

### *Others*

Taxonomic advisor for volume 4 of the Mediterranean Checklist (Greuter, Burdet & Long, eds. Ginebra, 1989).

Advisor for volume 10 of Atlas Florae Europaeae (Jalas & Suominen. Helsinki, 1994).

Organizer of the course "Molecular techniques in plant systematics and phylogeny" at the RJB. 1995, 1996.

### **Research Grants received as P.I.**

Spanish Ministry of Education – Support grant for the organization of the meeting "II Jornadas de taxonomía vegetal" (Ref.: DGICYT CO1989-0052)]. 6000 €. 1990.

Spanish Ministry of Education – "Role and evolutionary significance of hybridization in the genus *Armeria* (Plumbaginaceae)" [Papel y Significación evolutiva de la hibridación en el género *Armeria* ] (Ref.: DGICYT PS90 0007). 9,375 €. 1991-1994.

Spanish Ministry of Education-British Council – (bilateral concerted actions with the U.K.) "Taxonomic studies on the Iberian Flora" (Ref.: HB1992-0209). 1993-1994.

Spanish Ministry of Education – Support for the organization of the Course 'Molecular techniques in plant Systematics and phylogeny' (Ref.: DGICYT CO1994-0444). 2,404 €. 1995.

Spanish Ministry of Education – "Hybridization as an evolutionary process in *Armeria* (Plumbaginaceae): a study of molecular markers" [La Hibridación como proceso evolutivo en *Armeria*: estudio de marcadores moleculares] (DGICYT PB94-0110). 15,025 €. 1995-1998.

- Spanish Ministry of Education – “Hybridization as an evolutionary mechanism in *Armeria* (Plumbaginaceae): analysis of two reticulated evolution spots based on nuclear and chloroplast markers” [La Hibridación como mecanismo evolutivo en *Armeria* II: Análisis de dos núcleos de evolución reticulada basado en marcadores nucleares y cloroplásticos] (DGES PB97-1146). 25,242 €. 1998-2001.
- CSIC – Slovak Academy of Sciences – (co-PI); “A comparative study of the genus *Cardamine* (Brassicaceae) in Central Europe and the Iberian Peninsula” (Researcher mobility in the frame of a joint project). 2000-2003.
- Autonomic Government, Madrid – “Genetic diversity and phylogeography of an endemic restricted and fragmented angiosperm group: *Arenaria tetraquetra* (Caryophyllaceae)” [Diversidad genética y filogeografía de un grupo de angiospermas endémico, de área restringida y fragmentada: *Arenaria tetraquetra*] (Ref.: 07M/0124/2000). 11,401 €. 2001-2002.
- Spanish Ministry of Science and Technology – “Conservation of ancestral polymorphisms in nuclear ribosomal DNA as indicators of ancient hybridization” [Conservación de polimorfismos ancestrales en ADN ribosómico nuclear como indicadores de hibridaciones ancestrales] (Acción Especial: REN2000-2094-E/ GLO). 2,103 €. 2001.
- CSIC – (PI); Support for the doctoral course “Cladistics: phylogenetic reconstruction applying parsimony”. 600 €. 2001.
- Spanish Ministry of Science and Technology – “Intraspecific phylogeography and gene flow in two species from continental and oceanic islands” [Filogeografía intraespecífica y flujo génico en dos especies de islas continentales y oceánicas] (Ref.: BOS2001-1839). 87,729 €. 2001-2004.
- Spanish Ministry of Science and Technology – Support for the Organization of the IX Meeting of the International Organization of Plant Biosystematics (IOPB): “Plant evolution in the Mediterranean climate zones” (Ref.: REN2002-11857-E GLO). 12,000 €. 2003.
- Spanish Ministry of Science and Technology -Portuguese Government – (bilateral concerted actions with Portugal) “Evolutionary role and conservation of hybrid lineages in *Narcissus*” (Ref.: HP2005-0140). 8,000 €. 2006-2007.
- BBVA Foundation – “Phylogeny, population genetic diversity and eco-physiology of the red mangrove hybrid complex (*Rhizophora mangle* y and *R. racemosa*) in the Neotropics” [Filogenia, diversidad genética poblacional y eco-fisiología del complejo híbrido de mangle rojo en el Neotrópico]. 199,999 €. 2009-2011.
- CSIC – Slovak Academy of Sciences – (co-PI); “Phylogeny and taxonomy of the *Alyssum montanum* – *A. repens* complex (Brassicaceae)”. 2010-2011.
- Spanish Ministry of Science, Technology and Innovation – “On the verge of extinction: consequences of a genetic bottle-neck due to overgrazing in *Armeria maderensis*, an oceanic insular endemic” [Al borde de la extinción: secuelas de un cuello de botella genético por sobrepastoreo en *Armeria maderensis*, un endemismo oceánico insular] (Acción complementaria: CGL2010-09713-E). 3,000 €. 2010-2011.
- Spanish Ministry of Economy and Competitiveness – “Transposable elements and plant evolution. A multilevel approach in non-model plant species” (Ref.: CGL2013-49097-C2-1-P). 170.000 €. 2014-2016.
- Spanish Ministry of Economy and Competitiveness – “The role of natural hybridization in plant evolution: bridging the gap between theoretical models and empirical data” (Ref.: CGL2017-88500-P). 135.000 €. 2018-2020.

### **Research Grants received as team member**

- Spanish Ministry of Education – “Flora Iberica II” (Ref.: CAICYT PR84 0141 C02 01). PI: S. Castroviejo. 120,989 €. 1985-1988.
- Spanish Ministry of Education – “Flora Iberica III” (Ref.: DGICYT PR87 0434 C02 01). PI: S. Castroviejo. 127,023 €. 1988-1991.
- Spanish-German Governments – (bilateral concerted actions with Germany) “Biosystematic investigations in Spanish angiosperms” [ Investigaciones biosistemáticas en angiospermas españolas en el contexto del Proyecto Flora Iberica] (Ref.: 20/41 B). PI: G. López. 1987.
- Spanish-Portuguese Governments – (bilateral concerted actions with Portugal) “Flora Iberica III” (Ref.: HP-009). PI: S. Castroviejo. 1992.
- Spanish Ministry of Education – “Flora Iberica IV” (Ref.: DGICYT PB91 0070 C03 00). 181,325 €. PI: S. Castroviejo. 1991-1997.
- Spanish Ministry of Education – “Flora Iberica in CD-ROM” (R & D Contract with Compact Software International, S.A.) (Ref.: DGICYT APC95-0070). 22,808 €. PI: S. Castroviejo. 1995.
- Spanish Ministry of Education – Complementary grant to the Project Flora Iberica IV (Ref.: DGICYT APC 95-0121). 27,646 €. PI: S. Castroviejo. 1995.
- Spanish Ministry of Education-Portuguese JNICT– (Joint Spanish-Portuguese project) “Flora Iberica V-VII”. 1995-1996.
- Spanish Ministry of Education – Support for the acquisition of a Boulder microscopic particle counter for plant reproductive studies (Ref.: DGES APC1998-0052). 17.429 €. PI: S. Castroviejo. 1998.

Spanish-Austrian Governments – (bilateral concerted actions with Austria) “Flora Iberica III” (Ref.: HB 1997-0034). 4,958 €. PI: R. Morales. 1999.

EU – “EURO + MED” (Ref.: EVRT-CT-2000-400004). 95,933 €. PI: B. Valdés. 2000-2003.

Spanish Ministry of Science and Technology – “Polyploidy and reticulate evolution in Malvaceae. A study with molecular markers” [Poliploidía y reticulación en malveas. Estudio con marcadores moleculares] (Ref.: REN2002-00339). 57,500 €. PI: J. Fuertes. 2002-2005.

Spanish Ministry of Science and Technology – “Phylogeny of the tribe Senecioneae (Asteroideae, Asteraceae) based on low copy nuclear genes” [filogenia de la tribu Senecioneae basada en genes nucleares de bajo número de copias]. (Ref.: CGL2004-03872). 52,000 €. PI: I. Alvarez. 2005-2008.

Spanish Ministry of Science and Technology – “Origin and evolution of morphological novelties in plant lineages. An EVO-DEVO approach” [Origen y evolución de las novedades morfológicas en linajes vegetales. Una aproximación EVO-DEVO] (Ref.: CGL2007-66516). 170,610 €. 2007-2010.

Spanish Ministry of Science, Technology and Innovation – “Niche conservatism and morphological evolution at the speciation crosspoint: an evodevo-phylogeographic study in the Malva generic alliance” (Ref.: CGL2010-16138). 120.000 €. PI: J. Fuertes. 2011-2014.

Integrated Activities Grant: Synthesis of Systematic Resources 3 (Acronym: SYNTHESYS3). <http://www.synthesys.info/>. European Commission FP7-Infraestructure-2012-1 (2013- 2016). IP.: Neil Greenwood: NHM, London. UK. Spanish package leader: M.Ramos, deputy leader: G.Nieto Feliner. 8.000.000 €

Agence Nationale de la Recherche (ANR) – “Deciphering sYmbiotic Networks in cArob-based Mediterranean agro-eCosystems (DYNAMIC)”. (Ref.: 14-CE02-0016) 484.200€. PI: Hervé Sanguin. (member of the experts panel) 2015-2019.

### **Invited Talks**

1. Flora of the Orense mountain ranges [NW Spain] (in Spanish). Galician Society of Natural History. Orense. 1985.
2. The role of hybridization in the evolution of Armeria (in Spanish). In: Seminars of the Dept. of Organigraphy and Plant Physiology. School of Agronomic Engineering, Universidad Politécnica, Madrid. 1986.
3. The genus Armeria in the Iberian Peninsula: problems of hybridization. In: Ecology and Evolutionary Seminar, School of Biological Sciences, Univ. of Nebraska Lincoln, USA. 1988.
4. Applying Cladistics to a microevolutionary case (in Spanish). In: Course on Plant Phylogeny. Faculty of Biology, Univ. Complutense, 1993.
5. A cladistic analysis of Geranium sect. Erodioidea. In: VIII OPTIMA Meeting. Univ. of Seville. Sept. 1995.
6. Vascular plant distribution in the Iberian peninsula. Current projects. In: VIII Meeting of the Committee for Mapping the Flora of Europe. Helsinki, Finland. Aug. 1997.
7. Hybridization as an evolutionary process in Armeria (Plumbaginaceae) (in Spanish). In: III Cycle of Seminars on ecology and evolution of plants. University of Sevilla - CSIC. Sevilla. 1997.
8. Reticulate evolution in diploid vascular plants: molecular evidence in Armeria (Plumbaginaceae). In: 93<sup>o</sup> Congresso della Società Botanica Italiana. Università de Cosenza, Italia. Oct. 1998.
9. Biosystematics in the 90s or the problem of integrating data from different sources (co-authored with Alvarez, I.). In: V Conference on Plant Taxonomy. University of Lisbon, Portugal. Sept. 1999.
10. Molecular markers in systematics and evolution. Reticulate evolution in Armeria (Plumbaginaceae) (in Spanish). In: Seminarios de Biología Fundamental. Facultad de Biología, University of Murcia. Apr. 2000.
11. Reticulate evolution in a diploid angiosperm genus (Armeria, Plumbaginaceae): molecular data, scenarios and models (in Spanish). Museo Nacional de Ciencias Naturales, Madrid. March 2000.
12. Assessing plant biodiversity. The importance of the historical component (in Spanish). In: Conference cycle on Conservation and Biodiversity in the 21th Century organized by the BBVA. Museo Nacional de Ciencias Naturales, Madrid. Sept. 2002.
13. Hybridization in Mediterranean plant groups. The thorny molecular investigation of a common evolutionary force. In: Congresso della Società Botanica Italiana. Università la Sapienza, Roma, Italy. Sept. 2005.
14. Phylogeny Reconstruction applying parsimony (in Spanish). University of Vigo, March 2005.
15. Species distribution modelling matches phylogeographic patterns in the atlantic-mediterranean disjunct Armeria pungens. In: Origin and evolution of Biota en Mediterranean climate zones. An integrative vision. Institute of Systematic Botany, Univ. of Zurich. Jul. 2007.

16. Differentiation, hybridization and long-distance dispersal in a linearly distributed Atlantic-Mediterranean disjunct species (co-authored with Piñeiro, R.; Fuertes Aguilar, J.). In: XII OPTIMA Meeting. Pisa, Italy. Sept. 2007.
17. The Royal Botanic Garden, Madrid: Phoenix bird or monolith (in Spanish). In: Conference cycle on botanic gardens. Jardín Botánico Atlántico, Gijón. March 2007.
18. Iberian endangered and threatened Flora (in Spanish). Fundación Oxígeno, Burgos. Dec. 2007.
19. Refuges within refuges - evolutionary complex patterns in southern Spanish mountain ranges. In: Xth Symposium of the International Organization of Plant Biosystematists (IOPB). Vysoké Tatry, Slovak Republic. Jul. 2008.
20. Inventory and monitoring of Biodiversity (in Spanish). In: II National Congress on Biodiversity. Blanes. Feb. 2009.
21. Natural hybridization in plants: a complex extended and not always negative phenomenon (in Spanish). In: I International conference on Phoenix canariensis. Gran Canaria, Nov. 2009.
22. Invasive plants (in Spanish). In the X Symposium of the Ibero-Macaronesian Association of Botanic Gardens. Jardín Botánico la Concepción, Málaga, May 2009.
23. Santiago Castroviejo and the renaissance of the Royal Botanic Garden (in Spanish). In: Obituary session devoted to the memory of Santiago Castroviejo Bolibar. Royal Academy of Exact, Physics and Natural Sciences, Madrid. Nov. 2009.
24. The importance of barriers and frontiers in Biology (in Spanish). In the Meeting: Science, language, frontiers. Univ. of Oviedo, Oct. 2010.
25. Plant diversity. What lies behind this concept. How much do we know. How much we would lose (in Spanish). Royal Academy of Pharmacy, Madrid. Oct. 2010.
26. Plant diversity: genes, species and its complex relationships (in Spanish). In: Conference cycle on Biodiversity. IMGEMA – Botanic Garden, Córdoba, Nov. 2010.
27. Angiosperms: challenges behind their diversity, evolution and conservation (in Spanish). In: Conference cycle on “The biodiversity and its challenges”. Instituto de Estudios Altoaragoneses. Huesca, Apr. 2010.
28. Things that Research can do for management and conservation of plant species and viceversa. (in Spanish). In: Meeting for the study and outreach of the Flora of the national and natural parks. CEMACAM Font Roja, Alicante, Oct. 2011.
29. Reticulate evolution in *Armeria* (Plumbaginaceae) and some considerations on the contribution of hybridization to plant diversity. Smithsonian Tropical Research Institute, Naos Is., Panama, Feb. 2011.
30. Contribution of natural hybridization to plant evolution in oceanic islands (and elsewhere). Is a conceptual synthesis possible? In: International Conferences on Island Biodiversity 2011. Present and emerging knowledge on the evolution, diversity and conservation of the Canarian Flora. Jardín Botánico Canario Viera y Clavijo, Las Palmas de Gran Canaria, March 2011.
31. Mediterranean Phylogeographic (plant) histories. Université de Aix-Marseille. Aix-en-Provence, France. Oct. 2011.
32. Overview of the Real Jardín Botánico (CSIC), including history and current activities. In: 5th Global Plants Initiative Annual Meeting. Real Jardín Botánico (CSIC), Madrid. 10 April 2012.
33. Mediterranean Plant Phylogeography: where are we now? Some prospects for the future. In “Symposium Plant Systematics and Evolution” on occasion of the retirement of Prof. Tod F. Stuessy, Univ. of Vienna, Austria. 9 Nov. 2012.
34. The Mediterranean stage for plant phylogeography. An overview. In: XIV OPTIMA Meeting, 9-15 Sept. 2013, Palermo.
35. The Royal Botanic Garden and the scientific expeditions during the Enlightenment (in Spanish). 25 Jan. 2014. Museo del Prado, Madrid.
36. Classical taxonomy and molecular phylogenetics: from mistrust to synergy, and beyond?. In: 3rd Science in Botanic Gardens Congress, 1-4 April, 2014. Las Palmas de Gran Canaria, Canary Islands.
37. Hybridization and systematics in the 21st Century: determinants for a good companionship. In: International Seminar on Advancements in Angiosperm Systematics and Conservation (IAPT-IAAT). University of Calicut, Kerala, India. 19-21 Nov. 2015.
38. Evolutionary role of natural hybridization: so close so far, so old so new. Instituto Cavanilles de Biodiversidad y Biología Evolutiva (Univ. de Valencia). 12 May 2016. Valencia.
39. Challenges faced by urban botanic gardens in the Mediterranean Botanic Gardens. In: XV OPTIMA Meeting. University of Montpellier, Montpellier. 6-12 Jun. 2016.
40. Phylogeographic patterns in the Mediterranean region. An update. In: XV OPTIMA Meeting. University of Montpellier, Montpellier. 6-12 Jun. 2016.

41. Phylogenetics and the Discovery of Plant Hybrid Lineages. In: XIX International Botanical Congress (IBC). Shenzhen, China. 23-29th July 2017.
42. Strong, Connected, Demanded and Alive: Four Crucial Characteristics for Biological Systematics in 2050. In: XIX International Botanical Congress (IBC). Shenzhen, China. 23-29th July 2017.
43. Natural hybridization in evolution: the good, the ugly and the bad questions. Institut für Botanik, Universität Innsbruck, 11 Oct. 2017.
44. Challenges faced by the Iberian-Macaronesian botanic gardens (in Spanish). Center of Forest research, Lourizan, Pontevedra. 20 Sept. 2018.
45. The role of hybridization in evolution: hybrid speciation, adaptive introgression and no man's land in between? In: EcoFlor 2019, Granada. 15 March 2019.
46. The Royal Botanic Garden, Madrid: more than two centuries in the edge of botany from the core of the city (in Spanish). In: "Keys and challenges of the current world". Universidad Autónoma de Madrid. 29 April 2019.
47. Evolutionary consequences of natural hybridization: The old and everlasting puzzle. Conservatoire Botanique Geneva – University of Geneva, 16 May 2019.
48. Evolutionary consequences of natural hybridization: The old and everlasting puzzle. Institute of Systematic and Evolutionary Botany. University of Zurich, 17 May 2019.

### ***Honors and Awards***

Bachelors Degree Award (premio extraordinario de licenciatura, 1981).  
 Five six-year tracks [sexenios] positively evaluated on the basis of Research activity by the Spanish National Evaluation Committee (CENEAI) (1983-88, 1989-1994, 1995-2000, 2001-2006, 2007-2012)  
 Six five-year tracks positively evaluate on the basis of other activities (managing, organizing, teaching, dissemination, tutoring, PhD supervising) by the CSIC (1982-1986, 1987-1991, 1992-1996, 1997-2001, 2002-2006, 2007-2011)

### ***Professional Societies***

Linnean Society of London  
 OPTIMA (Organization for the taxonomic research in the Mediterranean area)  
 Sociedade Broteriana (Portugal)  
 Society for the Study of Evolution (1987-1995)  
 International Association of Plant Taxonomists (IAPT)  
 International Organization of Plant Biosystematists (IOPB)  
 Sociedad Española de Biología Evolutiva (SESBE)

### ***Teaching***

#### ***Doctoral and post-graduate courses***

Introduction to Cladistics. Theory and methods (20 hours, including computer practical classes):  
 Facultad de Ciencias. Universidad Autónoma de Madrid. April-May 1996  
 Facultad de Ciencias. University of Granada. July 1996  
 Real Jardín Botánico. March-April 1997  
 Cladistics: phylogeny reconstruction applying parsimony (20 hours, including computer practical classes):  
 Real Jardín Botánico. April-May 2001

#### ***Invited profesor in other courses***

Phylogeny reconstruction based on DNA sequences analysis (8h, course coordinated by Pilar Catalán), University of Zaragoza (6-7 June 2001)

Cladistics. (within the doctorate Course “Sistematics of phylogenetic resources” coordinated by Juan Martínez Laborde. School of Agronomic Engineering, Universidad Politécnica, Madrid: 1999, 2002, 2003, 2004, 2005

Detection of evolutionary significant units in conservation: the role of phylogeography and phylogeny (within the course “Genes, genomes and genealogies in Biodiversity conservation” coordinated by J. A. Rosselló, Universidad Internacional Menéndez Pelayo. Cuenca, 2-4 July 2007

Natural hybridization and evolution / Hybridization in the red mangroves in the Neotropics. In: Master of Biodiversity and conservation of tropical areas”; UIMP-CSIC. 2016-2017; 2017-2018; 2018-2019.

### ***Doctoral Dissertations Supervised***

Biosystematic study of *Saxifraga* ser. *Ceratophyllae*  
Pablo Vargas Gómez (Universidad Complutense, Madrid, 1994).

Taxonomic revision of *Geranium* subgen. *Erodioidea* (Picard) Yeo (Geraniaceae)  
Carlos Aedo Pérez (Universidad de Salamanca, 1994).

Systematic and Phylogenetic study of the genus *Doronicum* L. (Compositae, Senecioneae)  
Inés Álvarez Fernández (Universidad Complutense, Madrid, 2000)

Study of reticulate evolution in *Armeria* (Plumbaginaceae) in Eastern Andalucía  
Belén Gutiérrez Larena (Universidad Autónoma de Madrid, 2004)

Phylogeographic study of a litoral disjunct Corse-Sardinian-Iberian species: *Armeria pungens* (Plumbaginaceae)  
Rosalía Piñeiro Portela (Universidad Autónoma de Madrid, 2007)

Phylogeny of the *Malva* generic Alliance: a molecular approach  
Pedro Escobar García (Universidad Autónoma de Madrid, 2007)

Evolutionary outcomes of natural hybridization in *Narcissus* (Amaryllidaceae): the case of *N. x perezlarae* s.l.  
Isabel Lourenço Marques (University of Lisbon, 2010)

Molecular Phylogeny of Plumbaginaceae with emphasis on *Acantholimon*  
Farideh Moharrek (Tarbiat Modares University, Teheran Iran)

Phylogeography, niche conservation and morphological evolution in *Lavatera* lineage (Malvaceae)  
Irene Villa Machío (Universidad: Autónoma de Madrid, 2017)

### ***Publications***

*Cites*: 1925 cites according to Web of Science (4 Dec. 2018) h index = 20; 4194 cites according to Google Scholar (12 Apr. 2019) h index = 25

### ***Refereed publications included in the SCI***

- Moharrek, F., Sanmartín, I., Kazempour-Osaloo, S., Nieto Feliner, G. (2019). Morphological innovations and vast extensions of mountain habitats triggered rapid diversification within the species-rich Irano-Turanian genus *Acantholimon* (Plumbaginaceae). *Frontiers in Genetics* 9: 698. doi: 10.3389/fgene.2018.00698
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