

PERSONAL INFORMATION

Surname, name: Pellicer Moscardó, Jaume
Identity Number: 20030751M
Date of birth: 19/11/1978
Nationality: Spanish
Languages: English (fluent), French (fluent), Spanish (native), Catalan (mother tongue)
Address: Jodrell Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB, United Kingdom
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CURRENT POSITION

01.04.2015-present Research Leader – Character Evolution.
Department of Comparative Plant and Fungal Biology. Jodrell Laboratory.
Royal Botanic Gardens, Kew.

PREVIOUS EMPLOYMENT RECORD

01.04.2013-31.03.2015 'Beatriu de Pinós' Postdoctoral Fellow. Jodrell Laboratory. Royal Botanic Gardens, Kew.
08.01.2010-31.03.2013 Research Geneticist. Jodrell Laboratory. Royal Botanic Gardens, Kew.

EDUCATION

15.12.2009 PhD in Biology (European Mention). Faculty of Pharmacy. University of Barcelona (Faculty of Pharmacy, PhD Prize awarded, course 2009-10).
16.10.2006 Diploma of Advanced Studies (MSc). Faculty of Pharmacy. University of Barcelona.
22.11.2004 Diploma of Pedagogical Aptitudes (teaching certificate). Institute of Education Sciences. Polytechnic University of Catalonia.
27.09.2004 Degree in Biology (BSc). Faculty of Biology. University of Valencia.

RESEARCH INTERESTS

My main scientific interest is to understand the evolutionary mechanisms governing plant genome size diversification and its significance in a changing environment. My research takes advantage of the extensive gardens collections and overseas field expeditions, and integrates both laboratory work and applied bioinformatics in the following areas: (i) Model-based analyses to study genome size and chromosome evolution (including physical DNA organisation) across several land plant groups. (ii) Genomic approaches to comprehensively explore plant giant genomes using next generation sequencing technologies. (iii) Large-scale genome dynamics in the course of plant radiations, with a particular focus on island colonisations.

GRANTS AND FELLOWSHIPS AWARDED

- [7] 2016. Capital bid to attend the 'International Botanical Conference 2017', to be held in Shenzhen (China) in July 2017. Bentham-Moxon Trust. [1,000 Pounds].
- [6] 2015. Capital bid to attend 'Evolution 2015' Meeting, to be held in Guarujá (Brazil) in June 2015. Bentham-Moxon Trust. [2,240 Euro].

- [5] 2013-2015. ‘Beatriu de Pinós’ postdoctoral fellowship: Tracking the evolutionary processes driving genome obesity in the monocot family Melanthiaceae (Ref. BP-A-00292). Catalan Research Council. Direcció General de Recerca de la Secretaria per a Universitats i Recerca del Departament d’Economia i Coneixement - Marie Curie actions of the 7th Framework Program-EU. [70,000 Euro]
- [4] 2010. Capital bid for Catalan written PhD thesis. Faculty of Pharmacy. University of Barcelona. [1,500 Euro]
- [3] 2005-2009. Predoctoral FPI grant (Ref. BES-2005-7901). Spanish Research Council. Dirección General de Investigación, Ministerio de Ciencia y Tecnología. [52,800 Euro]
- [2] 2005 (8 months). Predoctoral collaboration fellowship. GENMEDOC (Ref. BC04-196). ICBiBE-Botanic Garden of the University of Valencia. [8,800 Euro]
- [1] 2004 (6 months). Predoctoral collaboration fellowship. Primera fase del projecte de Creació de punts verds a la Universitat de València: Campus Burjassot-Paterna” (Ref. BC04-46). ICBiBE-Botanic Garden of the University of Valencia. [4,200 Euro]

PARTICIPATION AND COLLABORATION IN RESEARCH PROJECTS

- [10] 2015-2018. Evolution of Asteraceae in the European Alps. The Harding Alpine Plant and Fungal Research Programme. PI: Dr. Jaume Pellicer [297,733 Pounds]
- [9] 2014-2016. Transposable elements and plant evolution. A multilevel approach in non-model plant species. Spanish Research Council. Ministerio de Economía y Competitividad. Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia (CGL2013-49097-C2-1/2-P). PIs: Prof. Gonzalo Nieto Feliner (Coord.), Dr. Teresa Garnatje, [265,000 Euro]
- [8] 2010-2013. Evolutionary dynamics of genome obesity. Natural Environment Research Council (NERC, NE/G0256/1, NE/G017247/1). PI: Dr. Ilia J. Leitch, Prof. Andrew R. Leitch [£ 379,000]
- [7] 2010-2013. Biosystematic studies in the Asteraceae, VI: a molecular and cytogenetic approach to radiation, speciation and insularity in complexes of the genera *Cheirolophus*, *Echinops*, *Rhaponticum* (*Cardueae*) and *Artemisia* (*Anthemideae*). Spanish Research Council. Dirección General de Investigación, Ministerio de Educación y Ciencia - Programa Nacional (CGL2010-22234-C01-2/BOS). PI: Dr. Teresa Garnatje, Prof. Joan Vallès [144,360 Euro]
- [6] 2009-2013. Ajuts de suport als Grups de Recerca de Catalunya (SGR). Catalan Government. Generalitat de Catalunya (2009/SGR/00439). PI: Prof. Julià Molero [58,240 Euro]
- [5] 2007-2010. Cytogenetical, palynological and phylogeographical studies in the Asteraceae, V: genus *Cheirolophus* (*Cardueae*) and *Artemisia* (*Anthemideae*). Spanish Research Council. Dirección General de Investigación, Ministerio de Ciencia y Tecnología (CGL2007-64839-C02-01/BOS). PI: Dr. Teresa Garnatje, Prof. Joan Vallès [108,900 Euro]
- [4] 2005-2008. Ajuts de suport als Grups de Recerca de Catalunya (SGR). Catalan Government. Generalitat de Catalunya (2005/SGR/00344). PI: Prof. Julià Molero [46,600 Euro]
- [3] 2004-2007. Cytogenetical, palynological and biosystematic studies in the *Asteraceae*, IV: subtribes of *Anthemideae* related to the *Artemisiinae*, and the complex *Arctium-Cousinia*. Spanish Research Council. Dirección General de Investigación, Ministerio de Ciencia y Tecnología (CGL2004-04563-CO2-01-2/BOS). PI: Dr. Núria Garcia-Jacas, Prof. Joan Vallès [93,881 Euro]
- [2] 2004-2008. ENSCONET ‘European Native Seed Conservation Network’. VI Framework. Support for research infrastructures, integrating activities and EU coordination actions IIA-CA-506109/03 (RICA- CT-2004-506109). PI partner: Dr. Elena Estrelles

- [1] 2004-2006. GENMEDOC- Création d'un réseau de centres de conservation du matériel génétique de la flore des régions méditerranéennes de l'espace MEDOCC. P.I.C. INTERREG III-B, Méditerranée Occidentale (2003-03-4.1-E-060). PI partner: Dr. Antoni Marzo.

PUBLICATIONS

67 publications: 49 publications in SCI journals (17 as first/corresponding author) and 18 publications in non SCI journals (7 as first/corresponding author).

Publications in journals included in the SCI:

- [49] **Pellicer J***, Hidalgo O*, Walker J, Chase MW, MC Christenhusz, Schackelford G, Leitch IJ, Fay MF. In Press. Genomic size dynamics in tribe Gilliesieae (Amaryllidaceae, subfamily Alliioideae) in the context of polyploidy and unusual incidence of Robertsonian translocations. *Botanical Journal of the Linnean Society* [IF₂₀₁₅:2.523, Q1 Plant Sciences]
- [48] Hidalgo O*, **Pellicer J***, Christenhusz MC, Schenider H, Leitch IJ. In Press. Genomic gigantism on the whisk-fern family (Psilotaceae): *Tmesipteris obliqua* challenges record holder *Paris japonica*. *Botanical Journal of the Linnean Society* [IF₂₀₁₅:2.523, Q1 Plant Sciences]
- [47] García-Fernández A, Viales D, **Pellicer J**, Garnatje T, Vallès J. In Press. Phylogeographic insights into *Artemisia crithmifolia* reveal several areas of the Iberian Atlantic coast as refugia for genetic diversity. *Plant Systematic and Evolution* [IF₂₀₁₅:1.361, Q2 Plant Sciences]
- [46] Hidalgo O, Viales D, Vallès J, Garnatje T, Siljak-Yakovlev S, Leitch IJ, **Pellicer J**. 2017. Cytogenetic insights into an oceanic island radiation: the dramatic evolution of pre-existing traits in *Cheirolophus* (Asteraceae, Cardueae-Centaureinae). *Taxon* 66: 146-157 [IF₂₀₁₅:2.90, Q1 Plant Sciences]
- [45] Dodsworth S, Guignard M, Hidalgo O, Leitch IJ, **Pellicer J**. 2016. Salamanders' slow slither into genomic gigantism. *Evolution* 70:2915-2916 [IF₂₀₁₅:4.007, Q1 Evolutionary Biology]
- [44] V Sarasan, S Buord, **J Pellicer**, M Sanchez, RS Cowan, J-Y Lesouëf (2016) Approaches to develop a road map for the long-term conservation of an island endemic genus *Cylindrocline* *Acta Physiologiae Plantarum* 38: 10 [IF₂₀₁₄: 1.584, Q2 Plant Sciences]
- [43] J Clark, O Hidalgo, **J Pellicer**, H Liu, J Marquardt, Y Robert, M Christenhusz, S Zhang, M Gibby, IJ Leitch, H Schneider (In Press) Genome evolution of ferns: evidence for relative stasis of genome size across the fern phylogeny *New Phytologist* [IF₂₀₁₄: 7.672, Q1 Plant Sciences]
- [42] J Macas, P Novák, **J Pellicer**, J Čížková, A Koblížková, P Neumann, I Fuková, J Doležel, LJ Kelly, IJ Leitch (2016) In Depth Characterization of Repetitive DNA in 23 Plant Genomes Reveals Sources of Genome Size Variation in the Legume Tribe *Fabeae*. *PLOS One*. 10(11): e0143424 [IF₂₀₁₄: 3.234, Q1 Multidisciplinary Sciences]
- [41] G Mas de Xaxars, T Garnatje, **J Pellicer**, S Siljak-Yakovlev, J Vallès, S Garcia (2015) Impact of dysploidy and polyploidy on the diversification of high mountain *Artemisia* (Asteraceae) and allies. *Alpine Botany*. [IF₂₀₁₄: 1.458, Q2 Plant Sciences]
- [40] A Matthews, K Emelianova, AA Hatimy, M Chester, **J Pellicer**, K Shafique, MS Guignard, G Rouhan, DE Soltis, PS Soltis, IJ Leitch, AR Leitch, EV Mavrodiev, RJA Buggs (In Press) 250 years of hybridization between two biennial herb species without speciation. *AoB Plants* 7: plv081 [IF₂₀₁₄: 2.273, Q2 Plant Sciences]
- [39] D Viales, A García-Fernández, T Garnatje, **J Pellicer**, J Vallès (In Press) Phylogeographic insights of the lowland species *Cheirolophus sempervirens* in the southwestern Iberian Peninsula. *Journal of Systematics and Evolution*. [IF₂₀₁₄: 1.488, Q2 Plant Sciences]

- [38] D Vitales, A García-Fernández, T Garnatje, J Vallès, RS Cowan, MF Fay, **J Pellicer** (2015) Conservation genetics of the rare Iberian endemic *Cheirolophus uliginosus* (Asteraceae). *Botanical Journal of the Linnean Society* 179: 157-171. [IF₂₀₁₄: 2.534, Q2 Plant Sciences]
- [37] LJ Kelly, S Renny-Bifield, **J Pellicer**, J Macas, P Novák, P Newmann, MA Lysak, PD Day, M Berger, MF Fay, RA Nichols, AR Leitch, IJ Leitch (2015) Analysis of the giant genomes of *Fritillaria* (Liliaceae) indicates that a lack of DNA removal characterizes extreme expansions in genome size. *New Phytologist* 208: 596-607. [IF₂₀₁₃: 7.672, Q1 Plant Sciences]
- [36] H Schneider, H Liu, J Clark, O Hidalgo, **J Pellicer**, S Zhang, LJ Kelly, MF Fay, IJ Leitch (2015) Are the genomes of royal ferns really frozen in time? Evidence for coinciding genome stability and limited evolvability in the royal ferns *New Phytologist* 207:10-13. [IF₂₀₁₄: 7.672, Q1 Plant Sciences]
- [35] D vitales, A García, **J Pellicer**, J Vallès, A Santos-Guerra, RS Cowan, MF Fay, T Garnatje (2014) The keys to *Cheirolophus* diversification on oceanic islands inferred from AFLP data. PLOS ONE. [IF₂₀₁₃: 3.543, Q1 Multidisciplinary Sciences]
- [34] R Kynast, J Joseph, **J Pellicer**, M Ramsay, P Rudall (2014) Chromosome behaviour at the base of the angiosperm radiation: karyology of *Trithuria submersa* (Hydatellaceae, Nymphaeales). *American Journal of Botany* 101: 1447-1455. [IF₂₀₁₃: 2.463, Q2 Plant Sciences]
- [33] **J Pellicer**, LJ Kelly, IJ Leitch, WB Zomlefer, MF Fay (2014) A universe of dwarfs and giants: genome size and chromosome evolution in the monocot family Melanthiaceae. *New Phytologist* 201: 1484-1497. [IF₂₀₁₃: 6.545, Q1 Plant Sciences]
- [32] D Vitales, T Garnatje, **J Pellicer**, J Vallès, A Santos-Guerra, I Sanmartín (2014) The explosive radiation of *Cheirolophus* (Asteraceae, Cardueae) in Macaronesia. *BMC Evolutionary Biology* 14: 118. [IF₂₀₁₃: 3.407, Q2 Evolutionary Biology]
- [31] K Baker, P Lambdon, E Jones, **J Pellicer**, S Stroud, O Renshaw, M Niissalo, M Corcoran, C Clubbe, V Sarasan (2014) Rescue, ecology and conservation of a rediscovered island endemic fern (*Anogramma ascensionis*): ex situ methodologies and a road map for species reintroduction and habitat restoration. *Botanical Journal of the Linnean Society* 174: 461-477. [IF₂₀₁₃: 2.699, Q1 Plant Sciences]
- [30] S Garcia, IJ Leitch, A Anadon-Rosell, MÁ Canela, F Gálvez, T Garnatje, A Gras, O Hidalgo, E Johnston, G Mas de Xaxars, **J Pellicer**, S Siljak-Yakovlev, J Vallès, D Vitales, MD Bennett (2014) Recent updates and developments to plant genome size databases. *Nucleic Acids Research* 42: D1159-D1166. [IF₂₀₁₃: 8.808, Q1 Biochemistry & Molecular Biology]
- [29] J Vallès, MÁ Canela, S Garcia, O Hidalgo, **J Pellicer**, I Sánchez-Jiménez, S Siljak-Yakovlev, D Vitales, T Garnatje (2014) Genome size variation and evolution in the family Asteraceae. *Caryologia* 66: 221-235. [IF₂₀₁₃: 0.849, Q3 Plant Sciences]
- [28] **J Pellicer**, LJ Kelly, C Magdalena, IJ Leitch (2013) Insights into the dynamics of genome size and chromosome evolution in the early diverging angiosperm lineage Nymphaeales (water lilies). *Genome* 59: 437-449. [IF₂₀₁₃: 1.668, Q4 Genetics & Heredity]
- [27] RJ Dyer, **J Pellicer**, V Savolainen, IJ Leitch, H Schneider (2013) Genome size expansion and the relationship between nuclear DNA content and spore size in the *Asplenium monanthes* fern complex (Aspleniaceae). *BMC Plant Biology* 13: 1. [IF₂₀₁₃: 3.942, Q1 Plant Sciences]
- [26] N Wang, M Thomson, W JA Bodles, RMM Crawford, HV Hunt, AW Featherstone, **J Pellicer**, RJ Buggs (2013) Genome sequence of dwarf birch (*Betula nana*) and cross-species RAD markers. *Molecular ecology* 22: 3098-3111. [IF₂₀₁₃: 5.840, Q1 Ecology]
- [25] **J Pellicer**, S Gacia, J Vallès, K Kondo, T Garnatje (2013) FISH mapping of 35S and 5S rRNA genes in *Artemisia* subgenus *Dracunculus* (Asteraceae): changes in number of loci during polyploid

- evolution and their systematic implications. *Botanical Journal of the Linnean Society* 171: 655-666. [IF₂₀₁₃: 2.699, Q1 Plant Sciences]
- [24] T Garnatje, E Pérez-Collazos, **J Pellicer**, P Catalán (2013) Balearic insular isolation and large continental spread framed the phylogeography of the western Mediterranean *Cheirolophus intybaceus* s.l. (Asteraceae). *Plant biology* 15: 166-175. [IF₂₀₁₃: 2.405, Q2 Plant Sciences]
- [23] **J Pellicer**, S Clermont, L Houston, TCG Rich, MF Fay (2012) Cytotype diversity in the *Sorbus* complex (Rosaceae) in Britain: sorting out the puzzle. *Annals of Botany* 110: 1185-1193. [IF₂₀₁₂: 3.449, Q1 Plant Sciences]
- [22] LJ Kelly, AR Leitch, MF Fay, S Renny-Byfield, **J Pellicer**, IJ Leitch (2012) Why size really matters when sequencing plant genomes. *Plant Ecology & Diversity* 5: 415-425. [IF₂₀₁₂: 0.924, Q3 Plant Sciences]
- [21] J Vallès, **J Pellicer**, I Sánchez-Jiménez, O Hidalgo, D Vitales, S Garcia, J Martín, T Garnatje (2012) Polyploidy and other changes at chromosomal level and in genome size. Its role in systematics and evolution exemplified in some Anthemideae and Cardueae genera (Asteraceae). *Taxon* 61: 841-851. [IF₂₀₁₂: 2.782, Q1 Plant Sciences]
- [20] PD Day, **J Pellicer**, R Kynast (2012) Orange balsam (*Impatiens capensis* Meerb., Balsaminaceae): a reevaluation by chromosome number and genome size. *Journal of the Torrey Botanical Society* 139: 26-33. [IF₂₀₁₂: 0.750, Q4 Plant Sciences]
- [19] T Garnatje, O Hidalgo, D Vitales, **J Pellicer**, J Vallès, O Robin, S Garcia, S Siljak-Yakovlev (2012) Swarm of terminal 35S in *Cheirolophus* (Asteraceae, Centaureinae). *Genome* 55: 529-535. [IF₂₀₁₂: 1.668, Q4 Genetics & Heredity]
- [18] J Vallès, S Garcia, O Hidalgo, J Martín, **J Pellicer**, M Sanz, T Garnatje (2011) Biology, genome evolution, biotechnological issues and research including applied perspectives in *Artemisia* (Asteraceae). *Advances in Botanical Research* 60: 349-419. [IF₂₀₁₁: 2.855, Q1 Plant Sciences]
- [17] S Garcia, T Garnatje, E D McArthur, **J Pellicer**, S C Sanderson, J Vallès (2011) Taxonomical and nomenclatural rearrangements in *Artemisia* subg. *Tridentatae* including redefinition of *Sphaeromeria* (Asteraceae, Anthemideae). *Western North American Naturalist* 71: 158-163. [IF₂₀₁₁: 0.399, Q4 Plant Sciences]
- [16] **J Pellicer**, AA Korobkov, J Vallès, T Garnatje (2011) Phylogenetic relationships and subgeneric delimitation of subgenus *Dracunculus* Besser (genus *Artemisia*, Asteraceae) based on ribosomal and chloroplast DNA sequences. *Taxon* 60: 691-704. [IF₂₀₁₁: 2.703, Q1 Plant Sciences]
- [15] T Garnatje, MÁ Canela, S Garcia, O Hidalgo, **J Pellicer**, I Sánchez-Jiménez, S Siljak-Yakovlev, D Vitales, J Vallès (2011) GSAD: a genome size in the Asteraceae database. *Cytometry - Part A* 79: 401-404. [IF₂₀₁₁: 3.729, Q2 Biochemical Research Methods]
- [14] S Garcia, ED McArthur, **J Pellicer**, SC Sanderson, J Vallès, T Garnatje (2011) A molecular phylogenetic approach to western North America endemic *Artemisia* and allies (Asteraceae): untangling the sagebrushes. *American Journal of Botany* 98: 638-653. [IF₂₀₁₁: 2.664, Q1 Plant Sciences]
- [13] **J Pellicer**, T Garnatje, J Molero, F Pustahija, S Siljak-Yakovlev, J Vallès (2010) Origin and evolution of the South American endemic *Artemisia* species (Asteraceae): evidence from molecular phylogeny, ribosomal DNA and genome size data. *Australian Journal of Botany* 58: 605-616. [IF₂₀₁₀: 1.681, Q2 Plant Sciences]
- [12] **J Pellicer**, M Estiarte, S Garcia, T Garnatje, J Peñuelas, J Sardans, J Vallès (2010) Genome size unaffected by moderate changes in climate and phosphorous availability in Mediterranean plants. *African Journal of Biotechnology* 9: 6070-6077. [IF₂₀₁₀: 0.573, Q4 Biotechnology & Applied Microbiology]

- [11] **J Pellicer**, M F Fay, I J Leitch (2010) The largest eukaryotic genome size of them all? *Botanical Journal of the Linnean Society* 165: 10-15. [IF₂₀₁₀: 1.931, Q2 Plant Sciences]
- [10] **J Pellicer**, T Garnatje, O Hidalgo, N Tagashira, J Vallès, K Kondo (2010) Do polyploids require proportionally less rDNA loci than their related diploids? Examples from *Artemisia* subgenera *Absinthium* and *Artemisia* (Asteraceae, Anthemideae). *Plant Biosystems* 144: 841-848. [IF₂₀₁₀:0.829, Q3 Plant Sciences]
- [9] K Konowalik, S Garcia, **J Pellicer**, A Kreitschitz, J Vallès (2010) Cytogenetic characterisation of *Artemisia absinthium* (Asteraceae, Anthemideae) and its Polish endemic var. *calcigena*. *Annales Botanici Fennici* 47: 477-488. [IF₂₀₁₀:0.510, Q4 Plant Sciences]
- [8] **J Pellicer**, S Garcia, MA Canela, T Garnatje, AA Korobkov, J D Twibell, J Vallès (2010) Genome size dynamics in *Artemisia* L. (Asteraceae): following the track of polyploidy. *Plant biology* 12: 820-830. [IF₂₀₁₀:2.409, Q1 Plant Sciences]
- [7] **J Pellicer**, O Hidalgo, S Garcia, T Garnatje, J Martín, J Vallès (2009) Palynological study of *Ajania Poljakov* and related genera (Asteraceae, Anthemideae). *Botanical Journal of the Linnean Society* 161: 171-189. [IF₂₀₀₉:0.984, Q3 Plant Sciences]
- [6] **J Pellicer**, S Garcia, T Garnatje, J Vallès (2009) Changes in genome size in a fragmented distribution area: the case of *Artemisia crithmifolia* L. (Asteraceae, Anthemideae). *Caryologia* 62: 152-160. [IF₂₀₀₉: 0.450, Q3 Plant Sciences]
- [5] I Sánchez-Jiménez, **J Pellicer**, O Hidalgo, S Garcia, T Garnatje, J Vallès (2009) Chromosome numbers in three Asteraceae tribes from Inner Mongolia (China), with genome size data for Cardueae: significance of the karyological data in relation to the phylogeny. *Folia Geobotanica* 44: 307-322. [IF₂₀₀₉: 1.320, Q2 Plant Sciences]
- [4] S Garcia, KY Lim, M Chester, T Garnatje, **J Pellicer**, J Vallès, AR Leitch, A Kovarik (2009) Linkage of 35S and 5S rRNA genes in *Artemisia* (family Asteraceae): first evidence from angiosperms. *Chromosoma* 118: 85-97. [IF₂₀₀₉: 4.979, Q1 Genetics & Heredity]
- [3] S Garcia, T Garnatje, **J Pellicer**, ED McArthur, S Siljak-Yakovlev, J Vallès (2009) Ribosomal DNA, heterochromatin, and correlation with genome size in diploid and polyploid North American endemic sagebrushes (*Artemisia*, Asteraceae). *Genome* 52: 12. 1012-1024. [IF₂₀₀₉: 1.709, Q3 Genetics & Heredity]
- [2] S Garcia, MÁ Canela, T Garnatje, ED McArthur, **J Pellicer**, SC Sanderson, J Vallès (2008) Evolutionary and ecological implications of genome size in the North American endemic sagebrushes (*Artemisia*, subgenus *Tridentatae*). *Biological Journal of the Linnean Society* 94: 631-649. [IF₂₀₀₈: 2.019, Q2 Plant Sciences]
- [1] **J Pellicer**, S Garcia, T Garnatje, O Hidalgo, A A Korobkov, S S Dariimaa, J Vallès (2007) Chromosome counts in Asian *Artemisia* L. (Asteraceae) species: from diploids to the first report of the highest polyploid in the genus. *Botanical Journal of the Linnean Society* 153: 301-310. [IF₂₀₀₇: 1.075, Q3 Plant Sciences]

Publications not included in the SCI (papers, books and book chapters):

- [18] Cronk Q, Hidalgo O, **Pellicer J**, Percy D, Leitch I. 2016. *Salix* transect of Europe: variation in ploidy and genome size in willow-associated common nettle, *Urtica dioica* L. sens. lat., from Greece to arctic Norway. *Biodiversity Data Journal*. 2016 Sep 27;4:e10003
- [17] TJ Hamston, **J Pellicer**, MF Fay (2015) Polyploid wild service tree: first record of a triploid *Sorbus torminalis* (Rosaceae) in Britain. *New Journal of Botany* 5: 34-36.
- [16] **J Pellicer** (2014) Contrasting genome sizes in Melanthiaceae. *Kew Scientist* 45: 3.

- [15] **J Pellicer**, O Hidalgo, T Garnatje, K Kondo, J Vallès (2014) Life cycle versus systematic placement: phylogenetic and cytogenetic studies in annual *Artemisia* (Asteraceae, Anthemideae). *Turkish Journal of Botany* 38: 112-1122.
- [14] **J Pellicer**, I J Leitch (2014) The application of flow cytometry for estimating genome size and ploidy level in plants. In: *Methods in molecular biology*. Ed: P Besse. Springer: New York. 279-307.
- [13] TCG Rich, D Green, L Houston, M Lepsi, S Ludwig, **J Pellicer** (2014) British *Sorbus* (Rosaceae): six new species, two hybrids and a new subgenus. *New Journal of Botany* 4: 2-12.
- [12] AC Brennan, S Bridgett, M Shaukat, N Harrison, A Matthews, **J Pellicer**, AD Twyford, CA Kidner (2012) Genomic resources for evolutionary studies in the large, diverse, tropical genus, *Begonia*. *Tropical Plant Biology* 5: 261-276.
- [11] **J Pellicer**, T Garnatje, J Vallès (2011) *Artemisia* (Asteraceae): understanding its evolution using cytogenetic and molecular systematic tools, with emphasis on subgenus *Dracunculus*. In: *Recent Advances in Pharmaceutical Sciences*. Ed: D Muñoz-Torrero. Transworld Research Network: Kerala. 199-122.
- [10] O Hidalgo, J Mathez, S Garcia, T Garnatje, **J Pellicer**, J Vallès (2010) Genome size study in the Valerianaceae : first results and new hypotheses. *Journal of Botany* (Article ID797246)
- [9] S Garcia, T Garnatje, O Hidalgo, G Mas de Xaxars, **J Pellicer**, I Sánchez-Jimenez, D Vitales, J Vallès (2010) First genome size estimations for some eudicot families and genera. *Collectanea Botanica (Barcelona)* 29: 7-16.
- [8] K Kondo, Y Kondo, H Umemuro, K Yamada, T Motohashi, M H Abd El-Twab, S Masuda, **J Pellicer**, J Vallès, et al. (2010) *Herbs Chrysanthemum*. Ed: K. Kondo, Y. Kondo, H. Umemuro, K. Yamada, T. Motohashi. The Tokyo Agricultural University Press: Tokio.
- [7] J Martín, S Garcia, N Garcia-Jacas, T Garnatje, O Hidalgo, **J Pellicer**, A Susanna, J Vallès, R Vilatersana (2009) Études palynologiques sur des plantes méditerranéennes: vision d'ensemble et études concrètes sur les Astéracées. *Bocconeia* 23: 79-83.
- [6] **J Pellicer** (2009) Sistemàtica i filogènia d'*Artemisia* i gèneres relacionats: una aproximació citogenètica i molecular amb especial èmfasi en el subgènere *Dracunculus*. Faculty of Pharmacy, University of Barcelona. PhD Thesis.
- [5] **J Pellicer**, S Garcia, T Garnatje, O Hidalgo, S Siljak-Yakovlev, J Vallès (2008) Molecular cytogenetic characterization of some representatives of the subgenera *Artemisia* and *Absinthium* (genus *Artemisia*, Asteraceae). *Collectanea Botanica (Barcelona)* 27: 19-27.
- [4] **J Pellicer**, S Garcia, T Garnatje, O Hidalgo, S Siljak-Yakovlev, J Vallès (2007) Molecular cytogenetic approach to some representatives of the subgenera *Artemisia* and *Absinthium* (genus *Artemisia*, Asteraceae). *Chromosome Research* 15: 38-39.
- [3] S Garcia, M Chester, T Garnatje, A Kovarik, AR Leitch, **J Pellicer**, J Vallès (2007) Linkage of nuclear 45S and 5S rDNA in the sunflower family (Asteraceae) revealed by in situ hybridization and PCR. *Chromosome Research* 15: 37-38.
- [2] T Garnatje, S Garcia, O Hidalgo, **J Pellicer**, J Vallès (2007) Genome size in Asteraceae: state-of-art and perspectives. *The Nucleus: an international Journal of Cytology and allied topics* 94: 631-649.
- [1] **J Pellicer**, S Garcia, T Garnatje, AA Korobkov, S Dariimaa, J Vallès (2007) Chromosome numbers in some *Artemisia* (Asteraceae, Anthemideae) species and genome size variation in its subgenus *Dracunculus*: karyological, systematic and phylogenetic implications. *Chromosome Botany* 2: 45-33.

FUNDED SCIENTIFIC STAGES IN OVERSEAS INSTITUTIONS

- [4] 2013 (2 weeks). Montgomery Botanical Center/Fairchild Tropical Botanical Garden. Genome size evolution in the palm family (Arecaceae).
- [3] 2009 (3 months). Département Biodiversité, Systématique et Evolution, Université Paris Sud XI. France. Molecular cytogenetics (fluorochrome banding and fluorescent *in situ* hybridization) in annual *Artemisia* species.
- [2] 2008 (6 months). Department of Biology, University of Toronto at Mississauga. Canada. Population genetics of the species *Artemisia crithmifolia* using AFLP technique.
- [1] 2007 (3 months). Laboratory of Plant Chromosome and Gene Stock, University of Hiroshima. Japan. Molecular cytogenetics (fluorochrome banding and fluorescent *in situ* hybridization) in *Artemisia* and related genera.

CONTRIBUTIONS TO SYMPOSIA AND CONFERENCES

46 contributions: 27 oral communications (9 speaker) and 16 poster presentations (8 first/corresponding author)

- [46] **Authors:** J Pellicer, O Hidalgo, D Vitales, J Vallès, A Santos-Guerra, A García, S Siljak-Yakovlev, T Garnatje. **Title:** Cytogenetic insights into plant diversification: Asteraceae as a case study. **Conference:** XV OPTIMA Meeting. Invited presentation. **Place, year:** Montpellier, France. 2016.
- [45] **Authors:** J Pellicer, IJ Leitch. **Title:** Flow cytometry applications: uncovering plant genome size diversity across land plants. **Conference:** Sysmex Partec User's Meeting. Invited plenary presentation. **Place, year:** Bern, Switzerland. 2015.
- [44] **Authors:** J Pellicer, LJ Kelly, AR Leitch, MF Fay, IJ Leitch. **Title:** Insights into the evolutionary processes driving genome obesity in the Melanthiaceae. **Conference:** Evolution 2015. Oral presentation. **Place, year:** Guarujá, Brazil. 2015.
- [43] **Authors:** J Pellicer, LJ Kelly, IJ Leitch, AR Leitch, MF Fay. **Title:** Insights into the evolutionary processes driving genome size diversity and obesity in angiosperms. **Conference:** Invited oral presentation. **Place, year:** Atibaia, Brazil. 2015.
- [42] **Authors:** D Vitales, A García-Fernández, O Hidalgo, J Pellicer, I Sanmartín, J Vallès, RS Cowan, MF Fay, T Garnatje, A Santos-Guerra, S Siljak-Yakovlev. **Title:** The explosive radiation of *Cheirolophus* (Asteraceae) in Macaronesia: consequences and evolutionary implications. **Conference:** Island Biology. An International Conference on Island Evolution, Ecology, and Conservation. Poster presentation. **Place, year:** Honolulu (Hawaii), United States of America. 2014.
- [41] **Authors:** S Ikert-Bond, A Souza, Y Min, IJ Leitch, J Pellicer. **Title:** The evolution of genome size in the gymnosperm genus *Ephedra*: Flow cytometry and new chromosome counts support high levels of polyploidy. **Conference:** Botany. Poster presentation. **Place, year:** Boise, United States of America.
- [40] **Authors:** LJ Kelly, J Pellicer. **Title:** Big data, big challenges – lessons learnt from analysing the largest genomes in plants. **Conference:** Collections Based Research in the Genomic Era. Oral presentation. **Place, year:** London, United Kingdom.
- [39] **Authors:** A García-Fernández, D Vitales, J Vallès, J Pellicer, A Santos-Guerra, T Garnatje. **Title:** Radiación explosiva en islas oceánicas: estudio del género *Cheirolophus* en Macaronesia. **Conference:** XI Congreso Nacional de la Asociación Española de Ecología Terrestre. Oral presentation. **Place, year:** Pamplona, Spain. 2013.
- [38] **Authors:** S Garcia, N Olanj, T Garnatje, O Hidalgo, J Martín, J Pellicer, A Sonboli, J Vallès. **Title:** Polyploidy shaping *Tanacetum*'s diversity in Iran: chromosome number, rDNA loci and genome size. **Conference:** XIV OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Invited oral presentation. **Place, year:** Palermo, Italy. 2013.

- [37] **Authors:** D Vitales, A García-Fernández, J Vallès, **J Pellicer**, S Garcia, O Hidalgo, J Martín, T Garnatje. **Title:** Asymmetrical speciation patterns among Mediterranean and Macaronesian *Cheirolophus* (Asteraceae). **Conference:** XIV OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Invited oral presentation. **Place, year:** Palermo, Italy. 2013.
- [36] **Authors:** T Garnatje, S Garcia, F Gálvez, A Gras, O Hidalgo, **J Pellicer**, S Siljak-Yakovlev, J Vallès, D Vitales. **Title:** Two cytogenetic databases: Genome size in the Asteraceae (GSAD) and Plant rDNA. **Conference:** XIV OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Invited oral presentation. **Place, year:** Palermo, Italy. 2013.
- [35] **Authors:** O Hidalgo, J Vallès, A Romo, J Pardo, S Garcia, G Mas de Xaxars, **J Pellicer**, D Vitales, T Garnatje. **Title:** Genome expansion and contraction: opposite responses of gymnosperms to human induced stress. **Conference:** Jornada de Biologia Evolutiva, Societat Catalana de Biologia. Oral presentation. **Place, year:** Barcelona, Spain. 2013.
- [34] **Authors:** D Vitales, T Garnatje, **J Pellicer**, A García, J Vallès, A Santos-Guerra, I Sanmartín. **Title:** The temporal dynamics of phylogenetic tree shape in neutral community models. **Conference:** Speciation 2013. Second European Conference on Speciation Research. European Science Foundation. **Place, year:** Montpellier, France. 2013.
- [33] **Authors:** D Vitales, T Garnatje, **J Pellicer**, A Santos-Guerra, J Valles, I Sanmartín. **Title:** The explosive radiation of *Cheirolophus* in the Canary Island. **Conference:** 6th Biennial Meeting of the International Biogeography Society. The International Biogeography Society. **Place, year:** Miami, United States of America. 2013.
- [32] **Authors:** S Garcia, T Garnatje, MA Canela, A García, O Hidalgo, A Kovařík, G Mas de Xaxars, **J Pellicer**, S Siljak-Yakovlev, D Vitales, J Vallès. **Title:** Two new plant cytogenetic online resources: the GSAD and Plant rDNA databases. **Conference:** Global Questions on Advanced Biology. An international conference on interdisciplinary frontiers in Biology. **Place, year:** Barcelona, Spain. 2012.
- [31] **Authors:** J Vallès, **J Pellicer**, I Sánchez-Jiménez, O Hidalgo, T Garnatje, D Vitales, S Garcia, J Martín. **Title:** Molecular phylogenetic and cytogenetic insights to genera with Mediterranean and Irano-Turanian taxa. Case studies in the Asteraceae. **Conference:** XIII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Poster presentation. **Place, year:** Antalya, Turkey. 2010.
- [30] **Authors:** K Atkas, **J Pellicer**, T Garnatje. **Title:** Genome size data and chromosome numbers on some species of the genus *Petrorhagia* from Turkey. **Conference:** XIII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Invited oral presentation. **Place, year:** Antalya, Turkey. 2010.
- [29] **Authors:** D Vitales, I Sánchez-Jiménez, O Hidalgo, S Garcia, **J Pellicer**, J Martín, J Vallès, T Garnatje. **Title:** La colonització de la Macaronèsia: evidències moleculars d'especiació i diversificació ràpides al gènere *Cheirolophus* (Asteraceae, Cardueae). **Conference:** X Jornada de Biologia Evolutiva. Oral presentation. **Place, year:** Barcelona, Spain. 2010.
- [28] **Authors:** D Vitales, **J Pellicer**, A Santos-Guerra, J Vallès, T Garnatje. **Title:** *Cheirolophus* (Asteraceae, Cardueae): molecular evidences of speciation and rapid diversification in Macaronesia. **Conference:** FloraMac. Poster presentation. **Place, year:** Ponta Delgada (Azores), Portugal. 2010.
- [27] **Authors:** J Vallès, **J Pellicer**, I Sánchez-Jiménez, O Hidalgo, T Garnatje, D Vitales, S Garcia, J Martín. **Title:** Polyploidy and other changes at chromosomal level and in genome size. Its role in systematics and evolution exemplified in some genera of Asteraceae. **Conference:** International

- Organization of Plant Biosystematics (IOPB). Invited oral presentation. **Place, year:** Aurangabad, India. 2010.
- [26] **Authors:** MD Bennett, JF Greilhuber, J Pellicer, IJ Leitch. **Title:** Genome size – New records for plants. **Conference:** Plant & Animal Genomes XIX Conference. **Place, year:** San Diego. United States of America. 2011.
- [25] **Authors:** S Garcia, T Garnatje, O Hidalgo, J Pellicer, I Sánchez-Jiménez, J Vallès, A Kovařík. **Title:** Ribosomal RNA genes evolution and organisation in family Asteraceae. **Conference:** IX Jornada Biología Evolutiva. Oral presentation. **Place, year:** Barcelona, Spain. 2009.
- [24] **Authors:** T Garnatje, E Pérez-Collazos, J Pellicer, P. Catalán. **Title:** Ancestral Dianic-range signal and Balearic insular isolation in the recently diverged western Mediterranean *Cheirolophus intybaceus* s. l. (Asteraceae) populations. **Conference:** International Symposium on Islands and Evolution. Poster presentation. **Place, year:** Mahó (Menorca), Spain. 2009.
- [23] **Authors:** S Garcia, KY Lim, M Chester, T Garnatje, J Pellicer, J Vallès, AR Leitch, A Kovařík. **Title:** Unusual 45S-5S units of ribosomal rRNA loci in the sunflower family (Asteraceae): the case of *Artemisia*. **Conference:** Réunion du groupe Cytogénétique-Polyploidie **Place, year:** Angers, France. 2008.
- [22] **Authors:** J Pellicer, S Garcia, T Garnatje, O Hidalgo, I Sánchez, K Kondo, J Vallès. **Title:** Physical mapping of 5S and 18S-5.8S-26S ribosomal nuclear DNA in *Artemisia* L. and the related genera *Filifolium* and *Neopallasia* (Asteraceae, Anthemideae). **Conference:** Réunion du groupe Cytogénétique-Polyploidie. **Place, year:** Angers, France. 2008.
- [21] **Authors:** S Garcia, T Garnatje, O Hidalgo, J Pellicer, S Siljak-Yakovlev, J Vallès. **Title:** Evolutionary studies in a group of high mountain *Artemisia*: molecular cytogenetic, phylogenetic and genome size data. **Conference:** IXth IOPB (International Organisation of Plant Biosystematists) Meeting. Oral presentation. **Place, year:** Vysoké Tatry Mts., Slovakia. 2008.
- [20] **Authors:** I Sánchez-Jiménez, O Hidalgo, S Garcia, J Pellicer, J Martín, J Vallès, T Garnatje. **Title:** Sistemàtica molecular i primeres hipòtesis evolutives en el gènere *Echinops* L. (*Asteraceae*, *Cardueae*). **Conference:** VIII Jornada de Biología Evolutiva. Oral presentation. **Place, year:** Barcelona, Spain. 2008.
- [19] **Authors:** S Garcia, M Chester, T Garnatje, A Kovarik, AR Leitch, KY Lim, J Pellicer, J Vallès. **Title:** Linkage of nuclear 45S and 5S rDNA in the sunflower family (Asteraceae) revealed by in situ hybridization and PCR. **Conference:** XVI International Chromosome Conference. Poster presentation. **Place, year:** Amsterdam, Netherlands. 2007.
- [18] **Authors:** S Garcia, T Garnatje, O Hidalgo, J Pellicer, J Vallès. **Title:** Organización del genoma e implicaciones sistemáticas y evolutivas en *Artemisia umbelliformis* (Asteraceae) y especies afines. **Conference:** VIII Coloquio Internacional de Botánica Pirenaico-Cantábrica. Poster presentation. **Place, year:** León, Spain. 2007.
- [17] **Authors:** J Pellicer, S Garcia, T Garnatje, O Hidalgo, S Siljak-Yakovlev, J Vallès. **Title:** Molecular cytogenetic approach to some representatives of the subgenera *Artemisia* and *Absinthium* (genus *Artemisia*, Asteraceae). **Conference:** XVI International Chromosome Conference. Poster presentation. **Place, year:** Amsterdam, Netherlands. 2007.
- [16] **Authors:** S Garcia, J Pellicer, T Garnatje, O Hidalgo, J Vallès and S Siljak-Yakovlev. **Title:** Genome size evolution and molecular cytogenetic studies in an ancient group of orophytic *Artemisia*. **Conference:** XII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Poster presentation. **Place, year:** Pisa, Italy. 2007.
- [15] **Authors:** J Martín, S Garcia, N Garcia-Jacas, T Garnatje, O Hidalgo, J Pellicer, A Susanna, J Vallès, R Vilatersana. **Title:** Palynological studies in Mediterranean plants. An overview and case studies

- in the Asteraceae. **Conference:** XII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Oral presentation. **Place, year:** Pisa, Italy. 2007.
- [14] **Authors:** T Garnatje, MA Canela, S Garcia, O Hidalgo, J Martín, **J Pellicer**, O Robin, S Siljak-Yakovlev, J Vallès. **Title:** A multidisciplinary approach to the systematics of *Cheirolophus* and *Echinops* (Cardueae, Asteraceae). **Conference:** XII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Oral presentation. **Place, year:** Pisa, Italy. 2007.
- [13] **Authors:** O Hidalgo, S Garcia, N Garcia-Jacas, T Garnatje, J Martín, **J Pellicer**, A Susanna, J Vallès. **Title:** Extreme environmental conditions and phylogenetic inheritance: cytogenetic and palynological approaches on the systematics of *Myopordon* and *Oligochaeta* (Asteraceae, Cardueae). **Conference:** XII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area). Oral presentation. **Place, year:** Pisa, Italy. 2007.
- [12] **Authors:** J Vallès, S Garcia, T. Garnatje, O Hidalgo, **J Pellicer**. **Title:** *Artemisia* and its allies (Asteraceae, Anthemideae): cytogenetic insights. **Conference:** 2nd Meeting of the International Society of Chromosome Botany (ISBC). Oral presentation. **Place, year:** Tokyo, Japan. 2007.
- [11] **Authors:** O Hidalgo, S Garcia, T Garnatje, **J Pellicer**, O Robin, S Srisuwan, J Vallès, S Siljak-Yakovlev. **Title:** Evidences of hybridization events within the genus *Rhaponticum* (Asteraceae, Cardueae): a cytogenetic approach. **Conference:** Réunion du groupe Cytogénétique-Polyploidie. Poster presentation. **Place, year:** Clermont-Ferrand, France. 2007.
- [10] **Authors:** O Hidalgo, M^A Canela, S Garcia, T Garnatje, **J Pellicer**, J Vallès. **Title:** Evolution of genome size in *Rhaponticum* (Asteraceae, Cardueae): is the speciation process responsible for a decrease of DNA amount? **Conference:** Plant genome horizons - vistas and visions. Poster presentation. **Place, year:** Richmond, United Kingdom. 2007.
- [9] **Authors:** **J Pellicer**, M^A Canela, Sh Dariimaa, S Garcia, T Garnatje, O Hidalgo, AA Korobkov, J Vallès. **Title:** Is there an upper limit to genome size increase in *Artemisia* (Asteraceae)? **Conference:** Plant genome horizons - vistas and visions. Poster presentation. **Place, year:** Richmond, United Kingdom. 2007.
- [8] **Authors:** S Garcia, **J Pellicer**, O Hidalgo, S Siljak-Yakovlev, J Vallès, T Garnatje. **Title:** Genome size in the Asteraceae: first steps to a database. **Conference:** Plant genome horizons - vistas and visions. Poster presentation **Place, year:** Richmond, United Kingdom. 2007.
- [7] **Authors:** **J Pellicer**, S Garcia, T Garnatje, AA Korobkov, Sh Dariimaa, Sh Tsooj, J Vallès. **Title:** Grandària del genoma i nombres cromosòmics en *Artemisia* (Asteraceae, Anthemideae): implicacions sistemàtiques i evolutives. **Conference:** VI Jornades de Biologia Evolutiva. Oral presentation. **Place, year:** Barcelona, Spain. 2006.
- [6] **Authors:** S Garcia, M^A Canela, T Garnatje, O Hidalgo, **J Pellicer**, M Sanz, S Siljak-Yakovlev, J Vallès, R Vilatersana. **Title:** Genome size in the family Asteraceae: cytogenetic, systematic, phylogenetic, evolutionary, ecological and biogeographic implications. **Conference:** The International Compositae Alliance. Poster presentation. **Place, year:** Barcelona, Spain. 2006.
- [5] **Authors:** J Martín, S Garcia, **J Pellicer**, AA Korobkov, T Garnatje, J Vallès. **Title:** Palynological study of *Ajania* Poljakov and related genera (Asteraceae, Anthemideae, Artemisiinae). **Conference:** The International Compositae Alliance. Poster presentation. **Place, year:** Barcelona, Spain. 2006.
- [4] **Authors:** **J Pellicer**, S Garcia, T Garnatje, AA Korobkov, Sh Dariimaa, Sh Tsooj, J Vallès. **Title:** Polyploidy in *Artemisia* (Asteraceae, Anthemideae): is this kind of genome size increase its main speciation mechanism? **Conference:** The International Compositae Alliance. Poster presentation. **Place, year:** Barcelona, Spain. 2006.

- [3] **Authors:** T Garnatje, M^À Canela, S Garcia, O Hidalgo, **J Pellicer**, O Robin, S Siljak-Yakovlev, J Vallès. **Title:** Genome size variation, molecular phylogeny and nrDNA organization in the genus *Cheirolophus* Cass.: biogeographic implications. **Conference:** The International Compositae Alliance. Poster presentation. **Place, year:** Barcelona, Spain. 2006.
- [2] **Authors:** S Garcia, **J Pellicer**, T Garnatje, S Siljak-Yakovlev, ED McArthur, J Vallès. **Title:** Estudis biosistemàtics i evolutius en el subgènere *Tridentatae* (*Artemisia*, Anthemideae) **Conference:** Sesión Científica “Nous mètodes en l’estudi de l’evolució: exemples en les asteràcies”. Oral presentation. **Place, year:** Barcelona, Spain. 2006.
- [1] **Authors:** S Garcia, **J Pellicer**, T Garnatje, S Siljak-Yakovlev, ED McArthur, J Vallès. **Title:** Estudis biosistemàtics i evolutius en el subgènere *Tridentatae* (*Artemisia*, Anthemideae). **Conference:** Sessió científica. Institució Catalana d’Història Natural. Oral presentation. **Place, year:** Barcelona, Spain. 2006.

MENTIONS AND AWARDS

- PhD prize for best thesis dissertation in plant sciences for the year 2009-2010. ‘Systematics and phylogenetics of *Artemisia* and related genera: a cytogenetical and molecular approach with special emphasis on subgenus *Dracunculus*’ Faculty of Pharmacy. University of Barcelona.
- 1st Finalist on the XV prize for best thesis dissertation for the year 2009. University of Barcelona.
- European PhD mention. Faculty of Pharmacy. University of Barcelona.

SCIENTIFIC SOCIETIES AND RESEARCH GROUP MEMBERSHIPS

- Member of the Catalan Society of Biology (<http://scb.iec.cat>)
- Fellow of the Linnean Society of London (www.linnean.org)
- Councillor of the International Society of Chromosome Botany (ISCB)
- Member of the Catalan Plant Biodiversity and Biosystematics Group (GREB) (<http://webgreb.org>)
- Member of the International Association for Plant Taxonomy (IATP) (http://www.iapt-taxon.org/index_layer.php)

SUPERVISION OF GRADUATE STUDENTS, TEACHING AND TRAINING ACTIVITIES

PhD Thesis supervised: 1

- [2] **Title:** Evolution of the Asteraceae in the European Alps. **Student:** Luca Pegoraro. **University, year:** Queen Mary University of London, 2016-ongoing. **Co-supervisors:** Dr. Oriane Hidalgo, Prog. Andrew R Leitch
- [1] **Title:** Filogeografia, genètica de poblacions i citogenètica molecular del gènere *Cheirolophus* (Asteraceae, Cardueae)/ Filogeography, population genetics and molecular cytogenetics in the genus *Cheirolophus* (Asteraceae, Cardueae). **Student:** Daniel Vitales Serrano. **University, year:** University of Barcelona, 2015. **Co-supervisors:** Prof. Joan Vallès, Dr. Teresa Garnatje.

Member of PhD panels: 2

- [3] **Title:** Evolution, taxonomy and environmental niche variation of the *Brachypodium distachyon* complex species (Poaceae) **Student:** Diana Carolina Lopez Alvarez. **University, year:** University of Zaragoza, Spain. 2016.
- [2] **Title:** Estudios filogeográficos y filogenéticos en el género *Artemisia* (Anthemideae, Asteraceae). **Student:** Maria Sanz Gonzalez. **University, year:** University of Barcelona, Spain. 2012.
- [1] **Title:** A comparison of the efficiency of DNA barcoding regions in a small and a large genus. **Student:** Paula Spies. **University, year:** University of the Free State, South Africa. 2014.

MSc projects supervised: 1

- [1] **Title:** Implications of molecular systematic analyses on the conservation of rare and threatened taxa: the genus *Cheirolophus* (Asteraceae, Cardueae). **Student:** Daniel Vitales Serrano. **University, year:** University of Barcelona, 2010. **Co-supervisors:** Prof. Joan Vallès, Dr. Teresa Garnatje.

Final year projects supervised: 2

- [1] **Title:** Biologia de la conservació de *Cheirolophus sempervirens* i *Cheirolophus uliginosus* a la Península Ibèrica. **Student:** Daniel Vitales Serrano. **University, year:** University of Barcelona, 2010. **Co-supervisors:** Prof. Joan Vallès, Dr. Teresa Garnatje.
- [1] **Title:** Genome size and chromosome evolution in the Gilliesieae. **Student:** Vikky Thompson. **University, year:** Birbeck College, 2012. **Co-supervisor:** Ilia J Leitch.

Teaching experience

2016. MSc Plant and fungal genome diversity. Royal Botanic Gardens, Kew – Queen Mary University of London (1h).

2016. Course 'Genome size and chromosome evolution', Kew Diploma in Horticulture, RBG, Kew, UK.

2015. MSc Plant and fungal genome diversity. Royal Botanic Gardens, Kew – Queen Mary University of London (1h).

2007-08. Practical lectures to undergraduates 'Pharmaceutical Botany', Faculty of Pharmacy, UB, Spain (4 credits).

2008-09. Practical lectures to undergraduates 'Pharmaceutical Botany', Faculty of Pharmacy, UB, Spain (4 credits).

2014. Theoretical lectures at the 'Applied taxonomy Course - Plant Cytogenetics'. Royal Botanic Gardens, Kew. Funded by the Natural Environmental Research Council (NERC) (2 h)

2013. Theoretical lectures at the 'Applied taxonomy Course - Plant Cytogenetics'. Royal Botanic Gardens, Kew. Funded by the Natural Environmental Research Council (NERC) (2 h)

Training provided to sandwich students and internships: 20

• James Walker (Sandwich student, RBGK, UK) 2013-14 • Tracey Hampston (PhD student, University of Bristol) 2013 | • Sam Barratt (Sandwich student, RBGK) 2013 | • Shanna Ludwig (PhD student, University of Bristol) 2013 | • Oriane Hidalgo (Staff, RBGK) 2013 | • Joana Abreu (PhD student, University of Aveiro) 2012, 2013 | • Nian Wang (PhD student, Queen Mary University of London) 2012, 2013 | • Peter Franks (visitor, University of Sidney) 2012, 2013 | • Robert Dyer (PhD student, Imperial College). 2012 | • Jeanine Marquardt (PhD student, Natural History Museum). 2012 | • Andrew Mathews (Visitor, Queen Mary University of London) 2012 | • Katie Emelianova (Visitor, Queen Mary University of London) 2012 | • Sandra Clermont (Internship, University of Paris Sud) 2012 | • Donald Fraser (Sandwich student, RBGK) 2012 | • Alex Papadopoulos (Visitor, Oxford University) 2012 | • Wencai Wang (PhD student, Queen Mary University of London) 2012 | • Maite Guinard (PhD student, Queen Mary University of London) 2012. | • Emer Ni Dhuil (PhD Student, University of Dublin) 2011, 2012 | • Sean Stevenson (Internship, RBGK) 2011 | • Paula Spies (PhD student, University of Free State) 2011.

QUALIFICATIONS

Certificate of accreditation at level: *Professor Agregat*. Certificate issued by the Agència per a la Qualitat del Sistema Universtiari de Catalunya (AQU).

EDITORIAL AND REFEREE ACTIVITIES, MEDIA IMPACT:**Journal referee activities:**

Caryologia (2010-13, SCI), Comparative Cytogenetics (2008), Nordic Journal of Botany (2009-11, SCI), Central European Journal of Biology (2009, SCI), Botanical Journal of the Linnean Society (2010-11-12-13-14, SCI), Biological Journal of the Linnean Society (2013-15, SCI) Plant Cell Reports (2011, SCI), Plant Genetic Resources (2011), Environmental and experimental botany (2012, SCI), Chromosome Research (2012-13, SCI), Annals of Botany (2010-14, SCI), Annales del Real Jardin Botanico de Madrid (2013, SCI), Comparative Cytogenetics (2013, SCI), New Zealand Journal of Botany (2013, indexada en el SCI), Plant Ecology and Evolution (2013, SCI), Collectanea Botanica (Barcelona) (2013), Frontiers of Biogeography (2013), Genome (2014, SCI), New Phytologist (2014-15, SCI), Preslia (2014, SCI), Taxon (2014, SCI).

Grant referee board activities:

Czech Science Foundation (2012, 2013, 2015). German Science Foundation (2016)

Media (Scientific press reports):

Science: <http://news.sciencemag.org/sciencenow/2010/10/scienceshot-biggest-genome-ever.html>