

CURRICULUM VITAE – ORIANE HIDALGO

Research line: The connecting thread of my research is to uncover patterns and processes of genome evolution responsible for plant diversification, through an integrated approach including evolutionary-developmental biology, phylogenetics and cytogenetics. I am particularly interested in studying the origin and diversification of plant reproductive morphologies across angiosperms from the evo-devo and genomic perspectives. My research concentrates on the changes in floral symmetry and inflorescence complexity in Papaveraceae and the Asteraceae representatives displaying secondary heads (=syncephalia). My other main research line focuses on the evolutionary significance of the extraordinary diversity of plant genomes (i.e. size, organisation, composition and dynamics), covering a wide array of plant groups including angiosperms, gymnosperms and pteridophytes.

PERSONAL INFORMATION

Date of birth: 08/02/1976
Nationality: French
Languages: English (fluent), French (mother tongue), Spanish (fluent), Catalan (good understanding, elementary spoken)
Address: Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB, UK
E-mail: o.hidalgo@kew.org; orianehidalgo@hotmail.com

• CURRENT POSITION

09/2015–Present Marie Sklodowska-Curie Postdoc Fellow
Royal Botanic Gardens, Kew, UK

• PREVIOUS POSITIONS

09/2013–09/2015 Research Geneticist
Royal Botanic Gardens, Kew, UK
05/2011–09/2013 Postdoctoral Researcher
Botanical Laboratory, Faculty of Pharmacy, University of Barcelona, Spain
07/2008–04/2011 Postdoctoral Researcher
Department of Environmental and Plant Biology, Ohio University, USA

• EDUCATION

07/2002–12/2006 PhD (European Doctorate Mention) *Suma Cum Laude*
Faculty of Pharmacy, University of Barcelona, Spain
10/1999–06/2000 Diploma of Advanced Studies (DEA, MSc II equiv.)
Museum National of Natural History Paris/University Claude Bernard Lyon I, France
09/1997–06/1998 Degree in Biology of Populations and Ecosystems
University of Montpellier II, France

• FELLOWSHIPS AND AWARDS

09/2015–08/2017 Marie Sklodowska-Curie Action, Call H2020-MSCA-IF-2014, European Union
05/2011–09/2013 'Juan de la Cierva' 3-year postdoctoral fellowship, Spanish Ministry of Science and Innovation
Botanical Laboratory, Faculty of Pharmacy, University of Barcelona, Catalonia, Spain
Fall 2010 Travel grant 'ajuts per a investigadors visitants UB-BKC'
Faculty of Pharmacy, University of Barcelona, Catalonia, Spain
05/2009–04/2011 'MICINN' 2-year postdoctoral fellowship, Spanish Ministry of Science and Innovation
Department of Environmental and Plant Biology, Ohio University, USA
Springs 2005 & 2006 2- and 3-month training grants FPI, Spanish Ministry of Education and Science
Laboratory ESE 'Ecology, Systematics & Evolution', University Paris-Sud XI, Orsay, France
Spring 2004 2-month training grant FPI, Spanish Ministry of Education and Science
Komarov institute, Academy of Sciences of Russia, St. Petersburg, Russia
07/2002–12/2006 4-year predoctoral grant FPI, Spanish Ministry of Education and Science
Botanical Institute of Barcelona, Catalonia, Spain
10/2000–06/2001 1-year predoctoral grant, Spanish Ministry of Foreign Affairs
Botanical Institute of Barcelona, Catalonia, Spain
Winter 1999 2-week botanical trip in Venezuela, financed by the National Council for Research in Science and Technology (CONICIT), Venezuela
10/2000–06/2001 DEA predoctoral grant, French Ministry of Higher Education and Research
Museum National of Natural History, Paris/University Claude Bernard Lyon I, France

• RESEARCH PROJECTS

- [11]. 2015–2018. Ain't no mountain high enough: evolution of Asteraceae in the European Alps. The Harding Alpine Plant and Fungal Research Program. Kew Foundation. PI: Dr. J. Pellicer [297,733 £]
- [10]. 2015–2017. Variation on a theme: evolutionary-developmental insights into the Asteraceae flower head. Marie Skłodowska-Curie Action, Call H2020-MSCA-IF-2014. PI: Dr. O. Hidalgo [183,455 €]
- [9]. 2014–2016. Transposable elements and plant evolution. A multilevel approach in non-model plant species. Ministerio de Economía y Competitividad, Spain – Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia (CGL2013-49097-C2-1/2-P). PI: Dr. T. Garnatje & Prof. G. Nieto Feliner [255,000 €]
- [8]. 2014–2016. Ajuts de suport als Grups de Recerca de Catalunya (SGR). Generalitat de Catalunya (2014/SGR/00514). PI: Prof. Joan Vallès [63,000 €]
- [7]. 2010–2013. Estudios biosistemáticos en las *Asteraceae*, VI: aproximación citogenética y molecular a fenómenos de radiación, especiación e insularidad en grupos de los géneros *Cheirolophus*, *Echinops*, *Rhaponticum* (*Cardueae*) y *Artemisia* (*Anthemideae*). Dirección General de Investigación, Ministerio de Educación y Ciencia - Programa Nacional (CGL2010-22234-C02/BOS, subproyectos 01 y 02). PI: Dr. Teresa Garnatje & Prof. Joan Vallès [144,360 €]
- [6]. 2009–2013. Ajuts de suport als Grups de Recerca de Catalunya (SGR). Generalitat de Catalunya (2009/SGR/00439). PI: Prof. Julià Molero [58,240 €]
- [5]. 2007–2010. Estudios citogenéticos, palinológicos, biológico-moleculares y filogeográficos en las *Asteraceae*, V: género *Cheirolophus* (*Cardueae*) y subgéneros de *Artemisia* (*Anthemideae*). DGICYT (CGL2007-64839-C02-01/ BOS). PI: Dr. Teresa Garnatje & Prof. Joan Vallès [108,900 €]
- [4]. 2005–2008. Ajuts de suport als Grups de Recerca de Catalunya (SGR). Generalitat de Catalunya (2005/SGR/00344). PI: Prof. Julià Molero [46,600 €]
- [3]. 2004–2007. Estudios citogenéticos, palinológicos y biológico-moleculares en las *Asteraceae*, IV: las subtribus de las *Anthemideae* relacionadas con las *Artemisiinae*, y el complejo *Arctium-Cousinia*. DGICYT (CGL2004-04563-C02-01,02/BOS). PI: Dr. Núria Garcia-Jacas & Prof. Joan Vallès [93,881 €]
- [2]. 2001–2004. Ajuts de suport als Grups de Recerca de Catalunya (SGR). Generalitat de Catalunya (2001/SGR/00125). PI: Prof. Julià Molero [36,060.73 €]
- [1]. 2001–2004. Estudios citogenéticos, palinológicos y biológico-moleculares en las *Asteraceae*, III: las subtribus *Artemisiinae*, *Carduinae* y *Echinopsidinae*. DGICYT (BOS2001-3041-C02-02). PI: Dr. Alfonso Susanna [49,431.52 €]

• MENTORING

Postdoctoral training supervised: 1 (ongoing)

2017 Dr. Lin Fu, South China Botanical Garden, Guangzhou, China

PhD thesis supervised: 2 (1 ongoing)

2016–present Luca Pegoraro, Queen Mary University

2009–2012 Ismael Sánchez-Jiménez, Barcelona University, Spain. *Suma Cum Laude*

Member of PhD committee: 1

2013 Abdel Samad Nour, Laboratory ESE 'Ecology, Systematics and Evolution', University Paris-Sud XI, France & Saint Joseph University, Lebanon

Master research projects supervised: 4 (2 ongoing)

2017 Yannick Woudstra, Royal Botanic Gardens, Kew, UK

2017 Ellen Carmanah Baker, Royal Botanic Gardens, Kew, UK

2012–2013 Fatima Badan, Barcelona University, Spain

2008–2009 Ismael Sánchez-Jiménez, Barcelona University, Spain

Master tutored works supervised: 2

Spring 2013 Agnès Salat. Course Biosystematics of seeds plants, Master Biodiversity, Faculty of Biology, Barcelona University, Spain. *First class honours for this tutored work*

Spring 2013 Adeline-Mihaela Rotariu. Course Biosystematics of seeds plants, Master Biodiversity, Faculty of Biology, Barcelona University, Spain

Final-year project supervised: 2

2015-2016 Benjamin Coquillas, ENSEIRB-MATMECA, Bordeaux Graduate School of Engineering. First-year degree project

2007-2008 Ismael Sánchez-Jiménez, Autonomous University of Madrid, Spain. Last-year degree project

Training of students: 17 (RBGK: Royal Botanic Gardens Kew, UB: University of Barcelona, IBB: Botanical Institute of Barcelona). • **Perla Farah** (PhD student, Université Saint Joseph, Beyrouth, Liban & Université Paris-Sarclay, France). 2017. RBGK, UK [2 weeks] | • **Clara Bescond** (IUT Génie Biologique, Brest, France). 2015. RBGK, UK [1 month] | • **Jiang Wei Jap** (PhD student, RBGK, UK). 2013–2015. RBGK, UK | • **Sarah Trinder** (PhD student, University of Liverpool, UK). Springs 2014 & 2015. RBGK, UK | • **James Clarks** (PhD student, Natural History Museum, London, UK). Summer 2014.

RBGK, UK | ● **Santelmo Vasconcelos** (PhD student, Universidad Federal de Pernambuco, Brasil) 2014 [4 months]. RBGK, UK | ● **James Walker** (Sandwich student, RBGK, UK). 2013–14. RBGK, UK | ● **Marta Salvia Trepap** (fourth-year degree, UB, Spain). Summer 2013. IBB, Spain | ● **Hassen Gouja** (PhD student, Faculty of Sciences of Tunis, Tunisia). Spring-summer 2013. UB, Spain | ● **Marc Usart** (first-year Biotechnology Degree, UB, Spain). July 2012. IBB, Spain | ● **Soumaya Khaldi** (PhD student, Faculty of Sciences of Tunis, Tunisia). 2012 [3 months]. UB, Spain | ● Undergraduate students **Thomas Ingram, Eden Kinkaid, Celeste Taylor, Mariah Thrush** and **Avery Tucker**. 2008-2011. Ohio University, USA | ● **Christine Hidalgo** (BTSA ANABIOTEC Biological and Biotechnological Agricultural Analysis, Toulouse, France). 2003 [4 months]. IBB, Spain

TEACHING ACTIVITIES

University lecturing:

Master course ‘Biosystematic of seed plants’, Master Biodiversity, University of Barcelona, Catalonia, Spain. Lectures (2h) and practical class (2h). 2013

Undergraduate course ‘Pharmaceutical Botany’, Faculty of Pharmacy, University of Barcelona, Catalonia, Spain. Lectures (6h in 2012, 1h in 2013) and practical classes (54h each year). 2012 & 2013

Undergraduate course ‘Plant Structure and Development’ PBI0 115, Ohio University, USA. Lectures 18–24 (1h each) spring quarter 2009. Lectures 18–20 (1h each) spring quarter 2010. Guest lectures. 2009 & 2010

PhD course ‘Cytogenetics and Evolution’ of the PhD program ‘Cellular Biology’, Autonomous University of Barcelona, Catalonia, Spain. Guest Lecture (1h). 2009

Other lecturing:

Course ‘Genetics’, Kew Diploma in Horticulture, RBG, Kew, UK. Lectures. 2014 (5h), 2015 (6h), 2016 (4h), 2017 (2h)

Theoretical lecture at the ‘Applied taxonomy Course - Plant Cytogenetics’. RBG, Kew, UK. Funded by the Natural Environmental Research Council (NERC). Fall 2015 (1h)

Botanical teaching (3h/week) in the association CADREF (comité d’animation, réflexion et formation pour retraités) Nîmes, France. 1999-2000

Teaching material: Barceló MC, Benedí C, Blanché C, Bosch M, Carrió E, Gómez A, **Hidalgo O**, Hernández M, Martín J, Massó S, Molero J, López-Pujol J, Ribera MA, Roldán M, Rovira AM, Rull J, Simon J, Suárez M, Vallès J, Vitales D. 2012. Botànica farmacèutica. Pràctiques, 3^a ed. Unitat de Botànica, Facultat de Farmàcia, UB. 126 pp

● MEMBERSHIPS OF RESEARCH GROUPS

Grup de Recerca Consolidat (SGR) in Biodiversitat i Biosistemàtica vegetals. Generalitat de Catalunya | The International Compositae Alliance (TICA)

● MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Societat Catalana de Biologia | Société Française de Biologie Végétale in 2009–2010

● PUBLICATIONS

Publications included in the SCI

[44]. **Hidalgo O***, Pellicer J*, Walker J, Chase MW, Christenhusz M, Schneider H, Leitch AR, Leitch IJ. In press. Genomic gigantism in the whisk-fern family: *Tmesipteris obliqua* challenges record holder *Paris japonica*. Botanical Journal of the Linnean Society | IF₂₀₁₅:2.523 [***equal contribution**]

[43]. **Hidalgo O**, Vitales 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 [**#corresponding author**]

[42]. Dodsworth S, Guignard M, **Hidalgo O**, Leitch I, Pellicer J. 2016. Salamanders’ slow slither into genomic gigantism. Evolution 70:2915–2916. | IF₂₀₁₅:4.007

[41]. Olofsson JK, Bianconi M, Besnard G, Dunning LT, Lundgren MR, Holota H, Vorontsova MS, **Hidalgo O**, Leitch I, Nosil P, Osborne CP, Christin P-A. 2016. Genome biogeography reveals the intraspecific spread of adaptive mutations for a complex trait. Molecular Ecology. 25: 6107–6123 | IF₂₀₁₅:5.947

[40]. Abdel Samad N, Bou Dagher-Kharrat M, **Hidalgo O**, El Zein R, Douaihy B, Siljak-Yakovlev S. 2016. Unlocking the karyological and cytogenetic diversity of *Iris* from Lebanon: *Oncocyclus* section shows a distinctive profile and relative stasis during its continental radiation. PlosOne 11(8), e0160816 | IF₂₀₁₅:3.057

[39]. Clark J*, **Hidalgo O***, Pellicer J, Liu H, Marquardt J, Robert Y, Christenhusz M, Zhang S, Gibby M, Leitch I, Schneider H. 2016. Genome evolution of ferns: evidence for relative stasis of genome size across the fern phylogeny. New Phytologist. 210:1072–1082 | IF₂₀₁₅:7.210 [***equal contribution**]

[38]. Schneider H, Liu H, Clark J, **Hidalgo O**, Pellicer J, Kelly LJ, Leitch I. 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 | IF₂₀₁₅:7.210

- [37]. **Hidalgo O**, Garcia S, Garnatje T, Mumbrú M, Patterson A, Vigo J, Vallès J. 2015. Genome size in aquatic and wetland plants: fitting with the large genome constraint hypothesis with a few relevant exceptions. *Plant Systematics and Evolution* 301:1927–1936 | IF₂₀₁₅:1.361
- [36]. **Hidalgo O**, Vallès J, Romo A, Canela MÁ, Garnatje T. 2015. Genome size variation in gymnosperms under different growth conditions. *Caryologia* 68:92–96 | IF₂₀₁₅:0.494
- [35]. Gouja H, Garnatje T, **Hidalgo O**, Vallès J, Neffati M, Raies A, Garcia S. 2015. Physical mapping of ribosomal DNA and genome size in diploid and polyploidy North African *Calligonum* species (Polygonaceae). *Plant Systematics and Evolution* 301:1569–1579 | IF₂₀₁₅:1.361
- [34]. Vitales D, Garcia-Fernández A, Pellicer J, Vallès J, Santos-Guerra A, Cowan RS, Fay MF, **Hidalgo O**, Garnatje T. 2014. Key processes for *Cheirolophus* (Asteraceae) diversification on oceanic islands inferred from AFLP data. *PlosOne* 9(11):e113207 | IF₂₀₁₄:3.234
- [33]. Garcia S, Leitch I, Anadon-Rosell A, Canela MÁ, Gálvez F, Garnatje T, Gras A, **Hidalgo O**, Johnston E, Mas de Xaxars G, Pellicer J, Siljak-Yakovlev S, Vallès J, Vitales D, Bennett MD. 2014. Recent updates and developments to plant genome size databases. *Nucleic Acids Research* 42:D1159–D1166 | IF₂₀₁₃:9.112
- [32]. Khaldi S, **Hidalgo O**[#], Garnatje T, El Gazzah M. 2014. Karyological and genome size insights into cardoon (*Cynara cardunculus* L., Asteraceae) in Tunisia. *Caryologia* 67:57–62 | IF₂₀₁₃:0.740 [**#corresponding author**]
- [31]. Pabón-Mora N, **Hidalgo O**, Gleissberg S, Litt A. 2013. Assessing duplication and loss of *APETALA1/FRUITFULL* homologs in Ranunculales. *Frontiers in Plant Science* 4 | IF₂₀₁₃:3.637
- [30]. Pellicer J, **Hidalgo O**, Garnatje T, Kondo K, Vallès J. 2014. Life cycle versus systematic placement: phylogenetic and cytogenetic studies in annual *Artemisia* (Asteraceae, Anthemideae). *Turkish Journal of Botany* 38:1112–1122 | IF₂₀₁₄ -
- [29]. Garcia S*, **Hidalgo O**[#], Jakovljević I, Siljak-Yakovlev S, Vigo J, Garnatje T, Vallès J. 2013. New data on genome size in 128 Asteraceae species and subspecies, with first assessments for 40 genera, 3 tribes and 2 subfamilies. *Plant Biosystems* 147:1219–1227 | IF₂₀₁₃ - [***equal contribution, corresponding author**]
- [28]. Vallès J, Canela MÁ, Garcia S, **Hidalgo O**, Pellicer J, Sánchez-Jiménez I, Siljak-Yakovlev S, Vitales D, Garnatje T. 2013. Genome size variation and evolution in the family Asteraceae. *Caryologia* 66:221–235 | IF₂₀₁₃:0.849
- [27]. Pustahija F, Brown SC, Bogunić F, Bašić N, Muratović E, Ollier S, **Hidalgo O**, Bourge M, Stevanović V, Siljak-Yakovlev S. 2013. Small genomes dominate in plants growing on serpentine soils in West Balkans, an exhaustive study of 8 habitats covering 308 taxa. *Plant & Soil* 373:427–453 | IF₂₀₁₃:3.235
- [26]. Wreath S*, Bartholmes C*, **Hidalgo O**^{*}, Scholz A, Gleissberg S. 2013. Silencing of *EcFLO*, a *FLORICAULA/LEAFY* gene of the California poppy (*Eschscholzia californica*), affects flower specification in a perigynous flower context. *International Journal of Plant Sciences* 174:139–153 | IF₂₀₁₃:1.690 [***equal contribution**]
- [25]. Romo A, **Hidalgo O**[#], Boratynski A, Sobierajska K, Jasinska AK, Vallès J, Garnatje T. 2013. Genome size and ploidy levels in highly fragmented habitats: the case of western Mediterranean *Juniperus* (Cupressaceae) emphasized to *J. thurifera* L. *Trees Genetics & Genome* 9:587–599 | IF₂₀₁₃:2.435 [**#corresponding author**]
- [24]. Vallès J, Pellicer J, Sánchez-Jiménez I, **Hidalgo O**, Vitales D, Garcia S, Martín J, Garnatje T. 2012. Polyploidy and other changes at chromosomal level in genome size. Its role in systematics and evolution exemplified in some Anthemideae and Cardueae genera (Asteraceae). *Taxon* 61:841–851 | IF₂₀₁₂:2.782
- [23]. **Hidalgo O**[#], Vallès J. 2012. First record of a natural hexaploid population for *Valeriana officinalis*: genome size is confirmed to be a suitable indicator of ploidy level in the species. *Caryologia* 65:243–245 | IF₂₀₁₂:0.632 [**#corresponding author**]
- [22]. Garnatje T*, **Hidalgo O**[#], Vitales D, Pellicer J, Vallès J, Robin O, Garcia S, Siljak-Yakovlev S. 2012. Swarm of terminal 35S in *Cheirolophus* (Asteraceae, Centaureinae). *Genome* 55:529–535 | IF₂₀₁₂:1.668 [***equal contribution, corresponding author**]
- [21]. Sánchez-Jiménez I, **Hidalgo O**, Garnatje T. 2012. *Echinops spinosissimus* subsp. *neumayeri* (Vis.) Kozukarov (Asteraceae; Cardueae): a new record for the flora of Greece. *Adansonia* 34:129–132 | IF₂₀₁₂:0.639
- [20]. Sánchez-Jiménez I, **Hidalgo O**, Canela MÁ, Siljak-Yakovlev S, Solič ME, Vallès J, Garnatje T. 2012. Genome size and chromosome numbers of *Echinops* (Asteraceae, Cardueae) in the Aegean and Balkan regions: technical aspects of nuclear DNA amount assessment and genome evolution in a phylogenetic frame. *Plant Systematics and Evolution* 298:1085–1099 | IF₂₀₁₂:1.312
- [19]. **Hidalgo O**, Bartholmes C, Gleissberg S. 2012. Virus-induced gene silencing (VIGS) in *Cysticapnos vesicaria*, a zygomorphic-flowered Papaveraceae (Ranunculales, basal eudicots). *Annals of Botany* 109:911–920 | IF₂₀₁₂:3.449
- [18]. Bartholmes C, **Hidalgo O**, Gleissberg S. 2012. Evolution of the *YABBY* gene family with emphasis on the basal eudicot *Eschscholzia californica* (Papaveraceae). *Plant Biology* 14:11–23 | IF₂₀₁₂:2.320
- [17]. Vallès J, Garcia S, **Hidalgo O**, Martín J, Pellicer J, Sanz M, Garnatje T. 2011. Biology, genome evolution, biotechnological issues and research including perspectives in *Artemisia* (Asteraceae). *Advances in Botanical Research* 60:349–419 | IF₂₀₁₁:2.855

- [16]. Garnatje G, Canela MÁ, Garcia S, **Hidalgo O**, Pellicer J, Sánchez-Jiménez I, Siljak-Yakovlev S, Vitales D, Vallès J. 2011. GSAD: a genome size database in the Asteraceae. *Cytometry A* 79:401–404 |IF₂₀₁₁:3.729
- [15]. Muratovic E, **Hidalgo O**, Garnatje T, Siljak-Yakovlev S. 2010. Molecular phylogeny and genome size in European lilies (genus *Lilium*, Liliaceae). *Advanced Science Letters* 3:1–10 |IF₂₀₁₀:1.259
- [14]. Sánchez-Jiménez I, Lazkov G, **Hidalgo O**[‡], Garnatje T[‡]. 2010. Molecular systematics of *Echinops* L. (Asteraceae; Cardueae): a phylogeny based on ITS and trnL-trnF sequences with emphasis on the evolution of some key morphological characters. *Taxon* 59:698–708 |IF₂₀₁₀:2.364 [[‡]equal contribution as supervisor]
- [13]. Pellicer J, Garnatje T, **Hidalgo O**, Tagashira N, Vallès J, Kondo K. 2010. Do polyploids require proportionally less rDNA loci than their corresponding diploids? Examples from *Artemisia* subgenera *Absinthium* and *Artemisia* (Asteraceae, Anthemideae). *Plant Biosystems* 144:841–848 |IF₂₀₁₀:0.829
- [12]. Pellicer J, **Hidalgo O**, Garcia S, Korobkov AA, Vallès J, Martín J. 2009. Palynological study of *Ajanía* Poljakov and related genera (Asteraceae, Anthemideae). *Botanical Journal of the Linnean society* 161:171–189 |IF₂₀₀₉:0.984
- [11]. Sánchez-Jiménez I, Pellicer J, **Hidalgo O**, Garcia S, Garnatje T, Vallès J. 2009. Chromosome numbers in three Asteraceae tribes from Inner Mongolia (China), with genome size data for Cardueae. *Folia Geobotanica* 44:307–322 |IF₂₀₀₉:1.320
- [10]. **Hidalgo O**[#], Romashchenko K, Garcia-Jacas N, Susanna A, Garnatje T, Siljak-Yakovlev S. 2008. Extreme environmental conditions and phylogenetic inheritance: systematics of *Myopordon* and *Oligochaeta* (Asteraceae, Cardueae). *Taxon* 57:769–778 |IF₂₀₀₈:2.360 [[#]corresponding author]
- [9]. **Hidalgo O**[#], Susanna A, Garcia-Jacas N, Martín J. 2008. From acaveate to caveate: evolution of pollen types in *Rhaponticum* group (Asteraceae, Centaureinae) related to extreme conditions. *Botanical Journal of the Linnean Society* 158:499–510 |IF₂₀₀₈:1.189 [[#]corresponding author]
- [8]. Sanz M, Vilatersana R, **Hidalgo O**, Garcia-Jacas N, Susanna A, Schneeweiss G, Vallès J. 2008. Molecular phylogeny and evolution of floral characters of *Artemisia* and allies (Anthemideae, Asteraceae): evidences from nrDNA ETS and ITS sequences. *Taxon* 57:1–13 |IF₂₀₀₈:2.360
- [7]. Garcia S, Garnatje T, **Hidalgo O**, McArthur ED, Siljak-Yakovlev S, Vallès J. 2007. Extensive rDNA (18S-5.8S-26S and 5S) colocalization in the North American endemic sagebrushes (*Tridentatae*, *Artemisia*) revealed by FISH. *Plant Systematics and Evolution* 267:79–92 |IF₂₀₀₇:1.492
- [6]. Pellicer J, Garcia S, Garnatje T, **Hidalgo O**, Korobkov AA, Dariimaa S, Vallès J. 2007. Chromosome counts in Asian *Artemisia* L. (Asteraceae) species: from diploid to the first report of the highest polyploid in the genus. *Botanical Journal of the Linnean Society* 153:301–310 |IF₂₀₀₇:1.075
- [5]. **Hidalgo O**[#], Garcia-Jacas N, Garnatje T, Susanna A, Siljak-Yakovlev S. 2007. Karyological evolution in *Rhaponticum* Vaill. (Asteraceae, Cardueae) and related genera. *Botanical Journal of the Linnean Society* 153:193–201 |IF₂₀₀₇:1.075 [[#]corresponding author]
- [4]. Susanna A, Garcia-Jacas N, **Hidalgo O**, Vilatersana R, Garnatje T. 2006. The Cardueae (Compositae) revisited: insights from a combined ITS, trnL-trnF and matK nuclear and chloroplast DNA analysis. *Annals of the Missouri Botanical Garden* 93:153–174 |IF₂₀₀₆:1.328
- [3]. **Hidalgo O**[#], Garcia-Jacas N, Garnatje T, Susanna A. 2006. Phylogeny of *Rhaponticum* (Asteraceae, Cardueae-Centaureinae) and related genera inferred from nuclear and chloroplast DNA sequence data: taxonomic and biogeographic implications. *Annals of Botany* 97:705–714 |IF₂₀₀₆:2.448 [[#]corresponding author]
- [2]. Garnatje T, Vallès J, Garcia S, **Hidalgo O**, Sanz M, Canela MÁ, Siljak-Yakovlev S. 2004. Genome size in *Echinops* L. and related genera (Asteraceae, Cardueae): karyological, ecological and phylogenetic implications. *Biology of the Cell* 96:117–124 |IF₂₀₀₄:2.233
- [1]. **Hidalgo O**[#], Garnatje T, Susanna A, Mathez J. 2004. Phylogeny of the Valerianaceae based on matK and ITS markers, with reference to matK individual polymorphism. *Annals of Botany* 93:283–293 |IF₂₀₀₄:2.262 [[#]corresponding author]

Other publications:

- [8]. 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
- [7]. **Hidalgo O**[#], Mathez J, Garcia S, Garnatje T, Pellicer J, Vallès J. 2010. Genome size study in the Valerianaceae: first results and new hypotheses. *Journal of Botany* 19pp (ID797246) [[#]corresponding author]
- [6]. Garcia S, Garnatje T, **Hidalgo O**, Mas de Xaxars G, Pellicer J, Sánchez-Jiménez I, Vitales D, Vallès J. 2010. First genome size estimations for eudicots families and genera. *Collectanea Botanica* 29:7–16
- [5]. **Hidalgo O**, Gleissberg S. 2010. Evolution of the reproductive architecture in the bleeding hearts and poppies (Papaveraceae s.l.). *International Journal of Plant Developmental Biology* 4 (Special Issue 1):76–85

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Book chapter:

- [1]. Montserrat JM, **Hidalgo O**. 2003. *Glossaire*. Valdés B, Redjali M, Achhal A, Jury SL, Montserrat JM (eds.). Catalogue des plantes vasculaires du Nord du Maroc, incluant des clés d'identification. Consejo Superior de Investigaciones Científicas. Pp 903–911

• CONTRIBUTIONS TO SYMPOSIA AND SCIENTIFIC CONFERENCES

54 contributions comprising 32 oral communications (11 as speaker) and 22 poster presentations (9 as first author).

Selected contributions:

- **Hidalgo O**, Palazzesi L, Sánchez-Jiménez I, Garnatje T. 2015. Intricate evolution of syncephalium and pollen morphology in *Echinops* (Cardueae, Asteraceae). Evolution 2015 Guarujá, Saõ Paulo, Brazil. Oral communication [Abstract book]
- **Hidalgo O**. 2015. Evolutionary-developmental insights into the inflorescences of Papaveraceae and Asteraceae. Seminar of the Gerbera Laboratory, Helsinki University, Finland. Oral communication, invited
- **Hidalgo O**, Bartholmes C, Gleissberg S. 2011. Virus-Induced Gene Silencing (VIGS) in *Cysticapnos vesicaria*, a zygomorphic-flowered Papaveraceae (Ranunculales, basal eudicots). Journées Evo-Devo. 3èmes rencontres nationales sur le thème de la génétique évolutive du développement et de l'évolution des formes, Paris, France. Oral communication [Abstract book]
- **Hidalgo O**, Wreath S, Bartholmes C, Gleissberg S. 2009. Evo-devo study of the reproductive morphological diversity in Papaveraceae s.l. IX Jornada de Biología Evolutiva, Barcelona, Spain. Oral communication (talk winner of a 'premi Antoni Prevosti') [Abstract book]
- **Hidalgo O**, Garcia S, Garcia-Jacas N, Garnatje T, Martín J, Pellicer J, Susanna A, Vallès J. 2007. Extreme environmental conditions and phylogenetic inheritance: cytogenetic and palynological approaches on the systematics of *Myopordon* and *Oligochaeta* (Asteraceae, Cardueae). XII OPTIMA Meeting, Pisa, Italy. Oral communication, invited [Abstract book]

• REVIEWER FOR SCI JOURNALS

African Journal of Biotechnology | Annales Botanici Fennici | Biologia Plantarum | BMC Plant Biology | Botanical Journal of the Linnean Society | Caryologia | Collectanea Botanica | Comparative Cytogenetics | Cytometry A | Grana | International Journal of Plant Sciences | Journal of Botany | National Academy Science Letters | Phytologia Balcanica | Plant Systematics and Evolution | Taxon

• REVIEWER FOR RESEARCH PROJECTS

Agence Nationalde de la Recherche, France | British Ecological Society | Czech Science Foundation | Grant Agency of the Academy of Science of the Czech Republic | National Science Foundation (USA)

• QUALIFICATIONS

-Qualifications for the functions of 'Maître de Conférences' (Lecturer-Researcher) in French Universities and in the Museum National of Natural History, Paris, section 68, Biology of the organisms, delivered by the French Ministry of Higher Education and Research for four years. 2008–2012, 2012–2016, 2016–2020

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

• BOTANICAL EXPEDITIONS

Alps and Pyrenees, multiple times (1999-2016) | Morocco, 2004, 2005 (3 weeks & 10 days) | Lebanon, 2005 (1 week) | Spain, Mallorca, 2006 (4 days) | EUA, California, Joshua Tree National Park, 2009 (1 day) | Spain, Ávila, 2011 (1 week) | Portugal, 2011 (1 week)