

## QUALIFICATIONS

- 2005-29-09 Award of **doctoral degree**.  
Oct 2002-Sept 2005 **PhD in Life Sciences**  
Ecole Normale Supérieure de Lyon, France.  
Fellowship: Ministry of Research and Technology
- 2002-15-09 Award of a **Master degree** in Genetics  
University of Lyon, France. Admitted with honours.  
Fellowship: city of Lyon.
- 2000 **Bachelor degree** in Cellular Biology and Physiology  
University of Marseille, France. Admitted with honours.
- Education highlight**
- 2007 First PhD prize from the French Society of Botany

## SCIENTIFIC EXPERIENCE

- Dec 2007-June 2009 **Postdoctoral** position  
Mar 2010-June 2013 Study of the diversity of fruit and carpel morphology in Legumes, Solanaceae and basal eudicots.  
Supervisor: Dr Cristina Ferrandiz. CSIC. IBMCP. Valencia, Spain.  
Research hired from Dec 2007 to May 2009 by the competitive call "Ayuda para estancias de jovenes doctores extranjeros en universidades publicas y centros de investigacion espanoles" and from March 2009 to June 2013 by the Spanish ministry of education and science (CSIC).
- Oct 2006-Aug 2007 **Postdoctoral** position  
Generation of a new canola line by protoplast fusion.  
Supervisor: Dr Peer Schenk.  
Pacific Seeds Company/University Queensland. Brisbane, Australia.
- Oct 2002-Sept 2005 **PhD**. Study of the evolution of carpel development.  
Ecole Normale Supérieure de Lyon, France.  
Fellowship from the French ministry of science and technology.

## SCIENTIFIC SKILLS

Scientific fields: Plant development. Flower development. Functional genetics. Comparative genetics.

Laboratory: Genetic analyses in model and non-model plant species (gymnosperms, basal angiosperms, poppy, tobacco, legumes, arabidopsis).

Optimization of molecular tools for functional analyses (*in situ* hybridization, plant genetic transformation (*in vitro* culture regeneration, VIGS)).

Molecular biology (RACE-PCR, TAIL-PCR, quantitative PCR, *in situ* hybridization, yeast-2-hybrid...) and microscopy technics (histology and SEM).

Computing: Word, Excel, Powerpoint, Photoshop, DNA sequencing, multiple alignment, molecular phylogeny softwares.

## PUBLICATIONS

### Scientific articles:

- Fourquin C.**, Primo A., Huet E. and Ferrándiz C. CRC orthologs from legume species show conserved functions in carpel morphogenesis, floral determination and vascular development. Submitted to **Annals of Botany**.
- Ferrandiz C. and **Fourquin C.** (2014) The role of the FUL-SHP network in the evolution of fruit morphology and function. **J Exp Bot.** Jan 30. [Epub ahead of print]
- Fourquin C.** and Ferrandiz C. (2014) The essential role of NGATHA genes in style and stigma specification is widely conserved across eudicots. **New Phytologist.** Jan 31. doi: 10.1111/nph.12703. [Epub ahead of print]
- Fourquin C.**, del Cerro C., Victoria F.C., Vialette-Giraud A., de Oliveira A.C. and Ferrandiz C. (2013) A change in SHATTERPROOF protein lies at the origin of a fruit morphological novelty and a new strategy for seed dispersal in Medicago genus. **Plant Physiol** 162, 907-917.
- Fourquin C.** and Ferrandiz C. (2012) Functional analyses of AGAMOUS family members in *Nicotiana benthamiana* clarify the evolution of early and late roles of C-function genes in eudicots. **Plant Journal** 71(6), 990-1001.
- Finet, C., **Fourquin, C.**, Vinauger-Douard, M., Dedieu, A., Chambrier, P., Paindavoine, S., and Scutt, C.P. (2010) Parallel structural evolution of Auxin Response Factors in the angiosperms. **Plant Journal** 63(6), 952-9.
- Fourquin, C.**, Vinauger-Douard, M., Chambrier P, Berne-Dedieu A. and Scutt, C. P. (2007) Functional Conservation between CRABS CLAW Orthologues from Widely Diverged Angiosperms. **Annals of Botany** 100, 651-657.
- Scutt, C.P., Vinauger-Douard M., **Fourquin C.**, Finet C., Dumas, C. (2006). An evolutionary perspective on the regulation of carpel development. **J Exp Bot** 23, 1-10.
- Fourquin, C.**, Vinauger-Douard, M., Fogliani, B., Dumas, C. and Scutt, C. P. (2005) Evidence that *CRABS CLAW* and *TOUSLED* have conserved their roles in carpel development since the ancestor of the extant angiosperms. **Proc Natl Acad Sci U S A** 102, 4649-4654.
- Scutt, CP, Vinauger-Douard M, **Fourquin C**, Finet C, Dumas C (2005) A portrait of the ancestral flower. **Flowering Newsletter** 39, 3-8.
- Scutt, C. P., Vinauger Douard, M., **Fourquin, C.**, Ailhas, J., Kuno, N., Uchida, K., Gaude, T., Furuya, M. and Dumas, C. (2003) The identification of candidate genes for a reverse genetic analysis of development and function in the *Arabidopsis* gynoecium. **Plant Physiology** 132, 653-665.

### Book Chapters:

- Balanza V., Ballester P., Colombo M., **Fourquin, C.**, Martínez-Fernández I. and Ferrándiz C. (2014) Genetic and phenotypic analyses of carpel development in *Arabidopsis*. **Methods Mol Biol.** 1110, 231-49.
- Ferrandiz, C., **Fourquin, C.**, Prunet N., SCUTT, C.P., Sundberg, E., Trehin, C., and Vialette-Guiraud A.C. (2010) Carpel Development. **Advances in Botanical Research** Vol. 55.

## PATENTS

- Hybrid Plant Cell. Patent number: WO/2010/042974A1. Publication date : 22/04/2010. Easton, A., **Fourquin, C.**, Kawanishi, E. , Nowak, E., Schenk, P. (2009) Pacific Seeds Pty Ltd, Australie.
- Method of Increasing Flower and Fruit Production in a Monocarpic Plant. Balanza V., Berbel A., Ferrándiz C., **Fourquin, C.**, Madueño F., Martínez-Fernández I. and Serrano Mislata A. In process.

## TEACHING, TRAINING AND COMMUNICATION EXPERIENCE

- Jan 2011-Sept 2011 Co-Supervisor of the laboratory project of a master student (Amparo Primo). Title: Study of the Yabby factors in Legumes.
- 2008-2010 Supervision of laboratory-based practical work of undergraduate and master students. IBMCP. Valencia, Spain.
- March-June 2009 Organization of the Molecular Mechanism controlling flower development Meeting. Aiguablava, Spain.
- May-July 2007 Training of a research assistant  
University of Queensland, Brisbane, Australia.
- Oct 2005-Sept 2006 Biology Teacher for 12 to 18 years old pupils.  
Institut Mirabeau, Toulon, France.
- Sept 2002-Sept 2005 Teaching fellowship (Monitorat). Around 180 hours/year of tutorial and practical class to give to undergraduate and graduate students in genetics, plant biology, cell biology and immunology. ENS Lyon, France.

## LANGUAGES

Fluent in English, French and Spanish (written and spoken).

## REFERENCES

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University of Queensland, Australia.  
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