



CAILLEAU Aurélie

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I am french, and I defended my PhD the 13th of December, 2010, in the field of evolutionary biology, in Montpellier, France. My PhD thesis was concerned with the evolution of the genetics of angiosperm seeds, but my team was concerned with the modelling of evolutionary processes in general. Some (in particular [Florence Débarre](#)) were concerned with evolutionary epidemiology and introduced me to it. During my PhD, I used to practice population genetics modeling, some statistics, and a lot of bibliography management. I was also trained to quantitative genetics, grant writing and project management.

Education

2007 2010 Ph-D Supervised by T. Lenormand and P-O. Cheptou, ECOGEV team (Evolutionary Ecology and Genetics), CEFE (Center of evolutionary and functional ecology), CNRS, Montpellier.

2005 2007 M.Sc in Evolutionary Biology and Ecology, University of Montpellier II
summa cum laude

2002 2005 B.Sc in Life Science, Universities of Angers (until 2004) and Montpellier II (2005)
magna cum laude

Research

2007 2010 PhD : Evolution of genetics contributions in the angiosperm seed tissues
Key words: population genetics, ploïdy, genetic conflicts, quantitative genetics

2006 2007 2nd year thesis: Evolution of double fertilization in angiosperms
Supervisors: T. Lenormand and P-O. Cheptou, CEFE, Montpellier
Key words: double fertilization, endosperm, ploïdy, genetic conflicts

2005 2006 1st year thesis: Evolution of plasticity in *T.urticae*
Supervisors: S. Magalhaes and I. Olivieri, ISEM, Montpellier
Key words: experimental evolution, local adaptation, generalist-specialists

2005 Identification of potentially EST markers for reconstructing rodent phylogeny
Supervisors: Ranwez, E. Douzery and M. Tilak, ISEM, Montpellier
Key words: bioinformatics, phylogeny

2005 Molecular evolution of auto-incompatibility receptors (and their ligands)
Supervisors: S. Glemin and J. Dutheil, GPIA, Montpellier
Key words: bioinformatics, coevolution

2004 Identification and experimental ecology of *Rana* frogs

Supervisors: A. Pagano and D. Ould Shela, LEA, Angers

Key words: molecular biology, speciation

Publications and communications

Ploidy and the Evolution of Endosperm of Flowering Plants. Cailleau, A., P.-O. Cheptou and T. Lenormand, 2010 Genetics 184: 439-453.

Double fertilization and the masking of deleterious mutations in the endosperm. Cailleau A., T. Lenormand, and P.-O. Cheptou. Poster. ESEB August 2009, Torino, Italy.

Does evolution in temporally-varying environments require specific adaptations? Magalhães S, Cailleau A., Blanchet E, and Olivieri I. Poster. ESEB August 2009, Torino, Italy.

Evolution of double fertilization in angiosperms. Cailleau A., P.-O. Cheptou and T. Lenormand. Oral communication. PPD August 2007, Poitiers, France.

Evolution of host range in spider mites. Magalhães S., E. Blanchet, A. Cailleau and I. Olivieri. Poster. Workshop Experimental Metapopulations. December 2006, Montpellier, France.

Teaching and popularization

Theoretical ecology and population genetic course for BSc students (ca. 60 hours). University of Montpellier, 2008-2009.

Active member and treasurer at Plume!, organization of scientific popularization (redaction and edition in the paper "Plume!", making-of media for popularizing evolutionary biology).

Skills

Statistics with R-cran, SAS – **Modeling** with Mathematica (Population genetics, Adaptive dynamics) – **Database management** with Access – **Computing** with R-cran, Perl – Basic level of **biological techniques** (Allozymes, DNA extraction, PCR) – **Experimental designs**

French Native language - **English** Fluent - **Espagnol** Intermediate - **Wolof** Basic knowledge

Miscellaneous

Youth leader (BAFA : certificate of proficiency as a youth leader, 2003) and sanitary assistant in holiday centre: scientific and non-scientific animation for child and young from 6 to 18 years old, 2002 - 2006.

AFPS (First aid certificate)

Driving

licence