

CURRICULUM VITAE

François VASSEUR

Date of birth: 13 August 1986. French citizenship.

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EDUCATION AND RESEARCH POSITIONS

- 2016-present** **Post-doctorate.** Adaptive responses to resource availability and disturbance: analysis with experimental evolution in a model plant species. Centre d'Ecologie Fonctionnelle et Evolutive (CEFE, CNRS UMR 5175, Montpellier, France). Supervisor: Dr. C. Violle.
- 2013-2016** **Post-doctorate.** Genetic diversity of growth strategies in *Arabidopsis thaliana*: study of natural variation and hybrid performance. Max Planck Institute for Developmental Biology (Tübingen, Germany). Supervisor: Dr. D. Weigel.
- 2012** **Doctorate of Integrative Plant biology.** Plant integrated responses to water deficit and high temperature: from gene to phenotype in *Arabidopsis thaliana*. Laboratoire d'Ecophysiologie des Plantes sous Stress Environnementaux (LEPSE, INRA UMR759 Montpellier SupAgro, France). Supervisor: Dr. C. Granier.
- 2009** **Master of Sciences and Technologies.** Speciality: Integrative Plant Biology: Gene, Plant, Agrosystem. Implication of the gibberellic acid pathway in the control of recurrent blooming in rose. Laboratoire de Génétique et Horticulture (INRA UMR1259, Angers, France). Supervisor: Dr. F. Foucher.
- 2009** **Agronomist Engineer.** Institut Supérieur des Sciences Agronomiques, Agroalimentaires, Horticoles et du Paysage (Agrocampus-Ouest, Rennes, France).

NUMBER OF PUBLICATIONS: 15

H-INDEX: 11

SIGNIFICANT PUBLICATIONS

- Vasseur F**, Exposito-Alonso M, Ayala-Garay O, Wang G, Enquist BJ, Vile D, Violle C, Weigel D. (2018). Adaptive diversification of growth allometry in the plant *Arabidopsis thaliana*. *Proceedings of the National Academy of Sciences*, 115 (13): 3416-3421.
- Exposito-Alonso M, **Vasseur F**, Ding W, Wang G, Burbano HA, Weigel D. (2018). Genomic basis and evolutionary potential for extreme drought adaptation in *Arabidopsis thaliana*. *Nature ecology & evolution* 2(2): 352.
- Vasseur F**, Sartori K, Baron E, Fort F, Kazakou E, Segrestin J, Garnier E, Vile D, Violle C. (2018). Climate as a driver of adaptive variations in ecological strategies in *Arabidopsis thaliana*. *Annals of Botany*, 122(6):935-45.
- Vasseur F**, Violle C, Enquist BJ, Granier C, Vile D (2012). A common genetic basis to the origin of the leaf economics spectrum and metabolic scaling allometry. *Ecology Letters*, 15(10): 1149-1157.
- Vasseur F**, Pantin F, Vile D (2011). Changes in light intensity reveal a major role for carbon balance in *Arabidopsis* responses to high temperature. *Plant Cell and Environment*, 34(9): 1563-1576.

STUDENT MENTORING

1. Thibaut Bontpart. “Resource-use trade-off in *Arabidopsis thaliana*: genetic determinism and reproductive success”. Master. Université de Montpellier 2, France. Jan. - Jun. 2012.
2. Nathalie Lackus. “Examining the role of flowering time on the resistance to biotic stresses in *Arabidopsis thaliana*”. Bachelor thesis. Max Planck Institute for Developmental Biology, Tübingen, Germany. Jan. - Apr. 2015.
3. Iris Thorner. “Intraspecific trait variability and plant-plant interactions influence foraging behaviour of a generalist herbivore: the case of *Arabidopsis thaliana*”. Master. Ecole normale Supérieure de Lyon, France. Jan. - May 2017.
4. Louise Fouqueau. “Influence of nonlinear relationships on the emergence of trait heterosis: analysis with 450 hybrids in *Arabidopsis thaliana*”. Master 2. Université de Montpellier 2, France. Jan. - May 2017.
5. Alix Decamus. “Correlation between seed mass and germination rate in *Arabidopsis thaliana*”. DUT, Université de Perpignan, France. May - Jul. 2017.
6. Orane Boucher. “Effet du stress édaphique et de l’herbivorie lors de l’évolution expérimentale de populations d’*Arabidopsis thaliana*”. DUT, Université de Clermont-Ferrand, France. May - Jul. 2018.
7. Aurélien Estaragues. “Variation de la plasticité au stress au sein de la niche géographique d’*Arabidopsis thaliana*”. Master 2. Université de Montpellier 2, France. Jan. - May 2019.

INVITED ORAL COMMUNICATIONS

1. “Selection on growth strategy across *Arabidopsis thaliana*”. Institute of Evolution & Ecology, University of Tübingen, Germany (Feb. 2016).
2. “Genetic determinism of plant plasticity: disentangling cryptic genetic variation from plant allometry”. Max Planck Institute for Molecular Plant Physiology, Golm, Germany (May 2012).

AWARDS AND GRANTS

- PI of the ANR grant AraBreed** (2018-2021): ANR PRCI 2018-2021 grant (co-funded with DFG). Total grant amount: 494k€. Co-supervised with Cyrille Violle (CEFE, France), Niek Scheepens (Uni. Tübingen, Germany), Denis Vile (LEPSE, France) and Detlef Weigel (MPI Tübingen, Germany).
- Agreskills+ postdoctoral grant** (2017-2019): postdoctoral grant co-funded by INRA and the Agreskills+ program (project ranked 2nd).
- PhD thesis funded by a CIFRE grant** (2009-2012) from a collaboration between Bayer CropScience (Gent, Belgium) and the Laboratory of Plant Ecophysiology under Environmental Stress (LEPSE, Montpellier, France).

LEADERSHIP, SERVICE AND OUTREACH

- Symposium organizer** (2018): “Rapid evolutionary responses in a changing world” at the Second Joint Congress on Evolutionary Biology (Evolution Montpellier, Aug. 2018). Co-organized with Moises Exposito-Alonso (MPI Tübingen), Niek Scheepens (Uni. Tübingen) and Carol E. Lee (Uni. Wisconsin). Invited speaker: Dmitri Petrov (University of Stanford, USA).
- GrENE-net consortium coordinator** (2017-2022): co-supervised with Niek Scheepens (Uni. Tübingen) and Moises Exposito-Alonso (MPI Tübingen) (greenet.wordpress.com).
- Referee for several journals**, including *Ecology Letters*, *Heredity*, *Journal of Experimental Botany*, *Forest, Agroforestry Systems*, *Oecologia*, *PLOS One*