CAMILLE LE BRAS

CONTACT

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Single, 2 children

LANGUAGES

French
English (B1)

SKILLS ACQUIRED

- **Laboratory techniques:**
  - In vitro culture
  - Cryopreservation
  - Molecular biology
  - Flow cytometry
- **Horticultural techniques:**
  - Propagation
  - Greenhouse and controlled-environment cultivation
  - Horticultural lighting
  - Climate control and recording
  - Controlled crosses
  - Ecophysiological measurements:
    - Photosynthesis/Conductance
    - Chlorophyll
- **Plant architecture**
- **Bioinformatics**
  - Programming (C++, Python, R)
  - QTL analysis
  - 3D digitization
  - Datalogger
  - Modeling
- **Biostatistics**
  - Data analysis and interpretation

KNOW-HOW

- Student supervision (L3-M2)
- Technical and scientific watch
- Organization and task planning
- Teamwork
- Knowledge and skill transfer
- Sense of public service

QUALITIES

Motivated and Dynamic
Rigorous and Organized
Communicative and Curious

PROFILE

Energetic and curious by nature, I have always been deeply invested in the various facets of my profession. Building on my scientific and technical experience, I have the opportunity to contribute to different projects and interact with multidisciplinary teams. This is reflected in my involvement in numerous scientific communications (publications, conferences, or posters). Furthermore, my interest in new technologies and programming allows me to propose innovative solutions to address the research topics developed (phenotyping, plant physiology, QTL analysis...).

PROFESSIONAL EXPERIENCE

Research and Training Technician

Agrocampus-Ouest, Angers | 2008-2016 / 2017-2025

- Support for teaching in the SVAH department
  - Harvesting samples for plant recognition practical work
- Contribution to the management of shared rooms and equipment at IRHS.
  - Referent for metrology and ecophysiological measurement equipment.
- Protocol development (e.g., 3D digitization, root system phenotyping)
- Monitoring of cultures and experiments
- Supervision of interns
- Contribution to the analysis, interpretation, and valorization of results

Main themes addressed in this position:

2008/2009: Genetic transformation of Pelargonium / Germination of alfalfa (1)

2009/2016: Cryopreservation of vegetatively propagated species (2,3) / Introgression of traits of interest (polyploidization, QTL) (4,5) / Genotype x Environment interaction (6,7,8)

2017/2025: Genotype x Light interaction (9,10,11) / Trees in urban environments (12,13)

Scientific Expertise (Sole Proprietorship)

Sweet P France, St Gilles Croix de Vie | 2016

- Detection of major sweet potato viruses
- Development of sanitation and in vitro propagation methods
- Development of conservation methods for genetic resources

EDUCATION

1. **Master's Degree in Plant Biology**
   Université d'Angers | 2023-2024
2. **Professional Bachelor's Degree in Plant Techniques and Technologies**
   Ecole Supérieure d'Agricultures-ESA, Angers | 2006-2007
3. **DUT (Two-year University Diploma) in Biological Engineering, Agronomy option**
   Université de Clermont Ferrand | 2004-2006

REFERENCES

1. Vandecasteele, C. et al. Plant. Cell Environ. 34, 1473-87 (2011).
2. Le Bras, C. et al. Plant Cell, Tissue Organ Cult. 116, 235-242 (2013).
3. Guyader, A. et al. Proc. Cryopreserv. Crop species Eur. COST Action 871, 4-8 (2011).
4. Crespel, L. et al. Plant Breeding (2014).
5. Crespel, L. et al. Plant Breeding. 134, 356-364, (2015).
6. Li-Marchetti, C. et al. Front. Plant Sci. 06, 1-14 (2015).
7. Li-Marchetti, C. et al. Acta Hortic. 1087, 163-169 (2015).
8. Li-Marchetti, C. et al. Tree Genet. Genomes 13, (2017).
9. Crespel, L. et al. Agronomy 10, 1-16 (2020).
10. Crespel, L. et al. Front. Plant Sci. 13:929029. (2022).
11. Crespel, L. et al. Plants, 14, 1115. (2025).
12. Canonne D. et al, World Forum on Urban Forest (2023).
13. Canonne D. et al, submitted to Agriculture and Forest Meteorology (2025).