



Marie-Cécile Caillaud, Ph.D., HDR

Director of Research, CNRS

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RESEARCH INTERESTS

Plant cell division, phosphoinositides, cytoskeleton dynamics, membrane trafficking, plant immunity

EDUCATION

2019 – Habilitation à Diriger la Recherche, ENS Lyon

2009 – Ph.D., Molecular and Cellular Biology, University of Nice Sophia-Antipolis

Supervisor: Dr. Pierre Abad – Distinction

CURRENT POSITION

2023–present Director of Research (DR CNRS), RDP, ENS Lyon

Leading work on phosphoinositide and the cytoskeleton regulation of plant cell division.

PREVIOUS POSITIONS

2017–2023 – PI, “Cell Division and Membrane Lipids” group, RDP, ENS Lyon

2014–2016 – Research Scientist (CRCN), CNRS

2009–2013 – Postdoctoral Fellow, The Sainsbury Laboratory (UK), *Supervisor: Prof. J. Jones*

SELECTED GRANTS & AWARDS

Marie Curie Fellowship (2010–2012) – £170K

EMBO Long-Term Fellowship (2009–2010)

ANR Junior Investigator Grant (2017–2021) – €300K

ANR PlantScape, DivCON, DivFUSE – €1.7M (combined, 2021–2026)

ERC Consolidator Grant COMPASS (2025-2030) – €2,4 M

SUPERVISION & MENTORING

Ph.D. Students: M. Doumane, A. Lebecq

Postdocs: C. Goldy (EMBO fellow), H. Moreau (co-supervision), L. Courgeons (AGPR).

Masters & Bachelors: 15+ students

Engineers (CDD, CNRS): A. Fangain; E. Gascon; S. Moulin; L. Brocard

Unformal Mentoring: Early-career women in science

PEER REVIEW & COMMITTEES

Reviewer: *Nature*, *Science*, *eLife*, *Cell Press* (PUBLONS)

Evaluator: ANR, DFG, FWO, HORIZON-MSCA, Labex Saclay

Member: CNRS Section 23 (1 year)

Fellowship jury: Spanish Postdoc Programs, Ph.D. committees across France

EDITORIAL & OUTREACH

Editor – *Methods in Molecular Biology: Plant Cell Division* (2014, 2021)

Public Outreach: DECLICS (2021–2022), Fête de la Science (2023), Women&Sciences (2024–)

Mental Health Advocate – Organiser of round tables on workplace well-being

SELECTED INVITED TALKS & SEMINARS

Invited talks

- (2025) **20th International Workshop on Plant Membrane Biology** (IWPMB) (DK)
- (2024) **Gordon Conference** on the Plant and Microbial Cytoskeleton (Andover, USA)
- (2024) **Plant Biomechanics** Symposium (Singapore, SG)
- (2023) 10th **European Symposium on Plant Lipids** (Amsterdam, H)
- (2023) **Gordon Conference** on plant lipids (Galveston, USA)
- (2022) 25th **International Symposium on Plant Lipids** (Grenoble, FR)
- (2022) 4th **Jacques Monod Conference** (Roscoff, FR)

Invited lectures

2023–2019: VIB Ghent, NUS Singapore, PhD Schools across Europe

PATENTS

US 20110030095 A1 – Method for increasing plant resistance to nematodes

EP1992699 – Procédé pour augmenter la résistance d'une plante aux nématodes endoparasites

SELECTED PUBLICATIONS (Corresponding Author)

Gascon, Goldy et al. (*in press*) *Current Biology*

Lebecq et al. (2023) *Science Advances* DOI: 10.1126/sciadv.adf7532

Lebecq, Doumane et al. (2022) *eLife* doi.org/10.7554/eLife.73837

Doumane, Lebecq et al. (2021) *Nature Plants* doi.org/10.1038/s41477-021-00907-z

Simon et al. (2016) *Nature Plants* doi.org/10.1038/nplants.2016.89

SELECTED REVIEWS (Corresponding Author)

Goldy, C., & Caillaud, M. C. (2023) *Science* DOI: 10.1126/science.adi6664

Goldy C., M. C. Caillaud (2023) *Curr. Op. in Plant Biology* doi.org/10.1016/j.pbi.2023.102365

Caillaud, M. C. (2022). *Trends in Plant Science* DOI: 10.1016/j.tplants.2022.05.006

Doumane, M., M.-C. Caillaud* and Y. Jaillais* (2022) *TCB* DOI:10.1016/j.tcb.2022.01.009

CAREER BREAKS

2013–2014: Maternity Leave (1 year)

2016–2017: Maternity Leave (8 months)