

## Contact Details

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Date of birth: February 1<sup>st</sup>, 1996

Nationality: French

E-mail: [alex23lebecq@gmail.com](mailto:alex23lebecq@gmail.com) /  
[alebecq@stanford.edu](mailto:alebecq@stanford.edu)

Phone: +33 6 26 99 60 08

ORCID: <https://orcid.org/0000-0002-2521-5142>

## References

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### Dr. Marie-Cécile Caillaud

Principal investigator of lipids-cytoskeleton interplay during cell division in the Cell Signaling and Endomembrane (SiCE) team, Plant Development and Reproduction (RDP) laboratory,

ENS Lyon – CNRS - INRAe

Phone: +334 72 72 86 08

[Marie-cecile.caillaud@ens-lyon.fr](mailto:Marie-cecile.caillaud@ens-lyon.fr)

### Dr. Yvon Jaillais

Co-Director at the Plant Development and Reproduction (RDP) laboratory

Group leader of the Cell Signaling and Endomembrane (SiCE) team

ENS Lyon – CNRS – INRAe

Phone: +334 72 72 86 09

[yvon.jaillais@ens-lyon.fr](mailto:yvon.jaillais@ens-lyon.fr)

### Dr. Olivier Hamant

Co-Director at the Plant Development and Reproduction (RDP) laboratory

Group leader of the Mechanotransduction in Development (Mechanodevo) team

ENS Lyon – CNRS – INRAe

Phone : +334 26 73 14 41

[olivier.hamant@ens-lyon.fr](mailto:olivier.hamant@ens-lyon.fr)

## Courses and training

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- Statistical analysis with R (2019)
- Managed and be managed (2022)
- Article writing in English (2022)
- Inkscape (self-study)
- ImageJ (self-study)

# Alexis Lebecq

## Current position

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### **Postdoctoral associate (started June 2023 –)**

postdoctoral Associate in the HHMI laboratory of Dr. Bergmann at Stanford University

(@Bergmann lab <https://stanfordstomata.sites.stanford.edu>)

Subject: Probing the polarity-development interface in the stomatal lineage of plants

## Education

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### **PhD at ENS Lyon (October 2019 – defended on January 13, 2023)**

MENRT fellowship from the French Ministry of Research and Higher Education (1<sup>st</sup> at the competitive examination)

Advisor: Dr. Marie-Cécile Caillaud, Cell Signaling and Endomembrane (SiCE) team directed by Dr. Yvon Jaillais ([www.ens-lyon.fr/RDP/SiCE](http://www.ens-lyon.fr/RDP/SiCE))

laboratory: Plant Reproduction & Development (RDP), France.

Institute: ENS Lyon

Subject: Role of anionic lipids in interphasic and dividing cells of *Arabidopsis thaliana* (4 publications peer-reviewed international journals)

### **Thesis prize awarded by the French society of cell biology (SCBF)**

### **Master in genetic and development (09/2017-06/2019)**

Faculty of science, university Nice-Sophia-Antipolis, France.

Qualification Excellent, ranked 1<sup>st</sup>/ 54

- ▶ January-June 2019: Master II internship, Plant Reproduction & Development (RDP) laboratory, ENS Lyon, France.

Subject: Study of SAC9 and SH3P2 interaction during endocytosis in *Arabidopsis*.

- ▶ February-July 2018: Master I internship, Sophia Agrobiotech laboratory, university Côte d'Azur, France.

Subject: Functional analyses of plant proteins targets by Root-knot nematodes (*Meloidogyne Incognita*) effectors in *Nicotiana Tabacum*

### **Bachelor in biosciences and biotechnology (2014-2017)**

Faculty of Management, Economy and Science, Catholic University Lille, France.

Qualification good, ranked 2<sup>nd</sup> / 17

## Scientific publications

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- **Lebecq A.**, et al., (2022). "Dynamic Apical-Basal Enrichment of the F-Actin during Cytokinesis in Arabidopsis Cells Embedded in their Tissues." Quantitative Plant Biology. <https://doi.org/10.1101/2021.07.07.451432> (research article)
- **A. Lebecq\***, Doumane\*, et al., (2021). "The Arabidopsis SAC9 Enzyme defines a cortical population of early endosomes and restricts PI(4,5)P2 to the Plasma Membrane." <https://elifesciences.org/articles/73837> Elife (research article) **\*Co-first author (equal contribution)**
- Doumane, M\*, **A. Lebecq\***, et al., (2021). "Inducible depletion of PI(4,5)P2 by the synthetic iDePP system in Arabidopsis." Nature Plants 7(5): 587-597. [Nature Plants](https://doi.org/10.1038/s41467-021-25111-1) (research article) **\*Co-first author (equal contribution)**
- **Lebecq A.**, et al., (2023). The phosphoinositide signature guides the final step of plant cytokinesis. <https://doi.org/10.1126/sciadv.adf7532> (research article)
- E. Gascon., **Lebecq A**, F. Gacon, A. Bauer, A. Fangain, G. Cerutti, O. Hamant, O. Ali\*, M.-C. Caillaud\*. (in prep) Characterization of a Mechanical Hotspot for Cell Plate Guidance Near an Adjacent Tri-Cellular Junction (research article)

## Scientific communication

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### Selected on abstract :

- European Plant Cytoskeletal Club (2021), 20min presentation (zoom meeting)  
Title: "Studying the interplay between membrane composition and cytoskeleton dynamic during plant cytokinesis"  
Lebecq A
- IRN France-Japan Frontiers in Plant Biology (2021), short talk (zoom meeting)  
Title: "Suppressor of actin 9 (sac9)mutant underlines the interplay between membrane composition and cytoskeleton dynamics during plant cytokinesis"  
Lebecq A
- Plant Cell Biology International (2022), 20min presentation (in person) and chair of a session  
Travel Grant from the French society of developmental biology  
Title: "The phosphoinositide signature guides the final step of plant cytokinesis"  
Lebecq A

## Teaching-Mentoring

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**Complementary teaching activity (October 2019 – June 2022)** (French ACE) 48h/year at ENS Lyon

Master classes in genetics (from replication to translation) and cellular biology for bachelor student in biochemistry, teaching assistant in animal-plant physiology, biochemistry and genetic for bachelor student in biosciences.

**Supervision** of bachelor student (ENS), for 7weeks (**June-July 2020**). Internship project: Dynamic characterization of Actin apico-basal enrichment during cell division (ref Lebecq et al., 2022)