# **Postdoctoral Positions in Advanced Plant Imaging**

We are pleased to announce two open postdoctoral positions focused on advanced imaging techniques in plant research. These techniques include PALM, STORM, SPT, FRET-FLIM, and optogenetics.

# 1. Position 1: SEECLEAR Project

This position is part of the interdisciplinary exploratory synergy project **SEECLEAR**, in collaboration with the University of Copenhagen, with Staffan Persson (Copenhagen Plant Science Center) and Poul-Martin Bendix (Niels Bohr Institute). The project, titled **SEECLEAR - Wood Formation in Near Real-Time**, aims to develop and apply advanced imaging tools to visualize the de novo assembly of the plant secondary cell wall and monitor related cellular events, such as intracellular vesicle trafficking.

## 2. Position 2: ERC Project - STORMtheWALL

This position is part of the **ERC project STORMtheWALL**, which focuses on resolving the mechanisms of plant cell expansion at high spatiotemporal resolution. The project aims at uncovering key changes in cell wall architecture and chemistry during growth, and to understand the rapid signaling processes by which cells perceive and coordinate cell wall remodeling.

#### Candidate Qualifications

- Prior experience with any of the mentioned imaging techniques is advantageous.
- We welcome motivated candidates with diverse backgrounds in biology, chemistry, physics, or engineering.

#### **Position Details**

- **Start Date**: Positions are available from January 2025, with some flexibility for an earlier or later start.
- Location: INRAe Centre Versailles-Paris Saclay, Versailles, France
- **Duration**: Initial contract for two years, with the possibility of extension.

## **Application Contact**

For inquiries or to apply, please contact Dr. Kalina Haas: kalina.haas@inrae.fr

To learn more: https://ijpb.versailles.inrae.fr/en/directory/presentation/kalina-t-haas

#### References:

Haas, K. T., Wightman, R., Meyerowitz, E. M., & Peaucelle, A. (2020). Pectin homogalacturonan nanofilament expansion drives morphogenesis in plant epidermal cells. Science, 367(6481), 1003-1007.

Peaucelle, A., Wightman, R., & Haas, K. T. (2020). Multicolor 3D-dSTORM Reveals Native-State Ultrastructure of Polysaccharides' Network during Plant Cell Wall Assembly. iScience, 23(12), 101862

S Moussu<sup>\*</sup>, HK Lee<sup>\*</sup>, KT Haas, C Broyart, U Rathgeb, D De Bellis, ... H Höfte & J Santiago. *Plant cell wall patterning and expansion mediated by protein-peptide\_polysaccharide interaction.* Science (2023) 382 (6671), 719-725