

Sami Kazaz

2524-A Grant Street, 94703, Berkeley, USA
+1 (510) 570-7891 / kazaz.sami27@gmail.com



Educational background

- **PhD** (Plant biology) 2022
Université Paris-Saclay, Orsay, France
- **Engineer degree** (Food science) 2018
ESIX Normandie, Caen, France
- **MSc** (Food science) 2017
University of Manitoba, Winnipeg, Canada
- **DUT** (Two-year technical degree in biology) 2015
Université Paris-Est Créteil, Créteil, France

Professional experience

- **Postdoctoral researcher** (Plant biology) 3/2022 – ...
JointBioenergy Institute,
Lawrence Berkeley National Laboratory, USA
Project: Developing metabolic pathways to produce novel lignins and valuable co-products in model plants and crops.
PI: A. Eudes
- **PhD candidate** (Plant biology) 11/2018 – 1/2022
Institut Jean-Pierre Bourgin,
INRAE Versailles, France
Project: Biosynthesis and functions of monounsaturated fatty acids in plants
PI: S. Baud
- **Intern** (Plant biology) 4/2018 – 9/2018
Institut Jean-Pierre Bourgin,
INRAE Versailles, France
Project: Function of monounsaturated fatty acids in the seed of *Arabidopsis*.
PI: S. Baud
- **Intern** (Microbiology) 6/2017 – 9/2017
Institut Micalis,
INRAE Jouy-en-Josas, France
Project: Genetic modification of *Streptococcus thermophilus* for the study of its amino nitrogen consumption in a protein hydrolysate based medium.
PI: L. Proust

- **Intern** (Plant biology) 4/2015 – 6/2015
Dpt of Biotechnology and Food Technology,
TUT, Pretoria, South Africa PI: T. Regnier
Project: Quality and safety of roasted nuts of
Sterculia Murex (Lowveld Chestnuts).

Skills

- **Plant molecular biology:** Plant transformation, RT-qPCR, Gateway and jStack clonings, site-directed mutagenesis.
- **Biochemistry:** Lipid analysis (GC-MS, TLC), plant cell wall analysis (HPLC, LC-MS).
- **Cytology:** Confocal, scanning electron, and optical microscopies.
- **Physiology:** GUS reporter system, Toluidine blue staining, *in vitro* cultures.
- **Bioinformatic:** Phylogenetic analyses, Protein modeling (PyMol), MS Office.
- **Languages:** Native French, fluent English (C1 level: 985 TOEIC, 02/2018), bases in Spanish and Arabic.

Scientific activities

- **Project management:**
 - Organization of a 2-day congress in Orsay (2021 PhD Days) featuring 50 PhD students and 7 guest scientists.
- **Poster presentations:**
 - Joint BioEnergy Institute Annual Meeting 2022, Monterey, USA: Developing metabolic pathways to produce novel lignins and valuable co-products in model plants and crops.
 - European Plant Science Retreat 2019, Nottingham, England: Biosynthesis and functions of monounsaturated fatty acids in plants.
 - PhD Days 2018, Orsay, France: Biosynthesis and functions of monounsaturated fatty acids in plants.
- **Oral presentation:**
 - PhD Days 2019, Versailles, France: Biosynthesis and functions of monounsaturated fatty acids in plants.

Publications (ORCID: 0000-0001-8891-3135)

- **Kazaz, S.**¹, Miray, R.¹, Lepiniec, L., Baud, S. 2022. Plant monounsaturated fatty acids: diversity, biosynthesis, functions and uses. *Progress in Lipid Research*. 85, 101138.
- **Kazaz, S.**¹, Miray, R.¹, Baud, S. 2021. Acyl–Acyl Carrier Protein Desaturases and Plant Biotic Interactions. *Cells*. 10, 674.
- Miray, R.¹, **Kazaz, S.**¹, To, A., Baud, S. 2021. Molecular control of oil metabolism in the endosperm of seeds. *International Journal of Molecular Sciences*. 22, 1621.
- **Kazaz, S.**, Barthole, G., Domergue, F., Ettaki, H., To, A., Vasselon, D., De Vos, D., Belcram, K., Lepiniec, L., Baud, S. 2020. Differential activation of partially

redundant $\Delta 9$ stearoyl-ACP desaturase genes is critical for omega-9 monounsaturated fatty acid biosynthesis during seed development in *Arabidopsis*. *The Plant Cell*. 32, 3613-3639.

- To, A., Joubès, J., Thueux, J., **Kazaz, S.**, Lepiniec, L., Baud, S. 2020. AtMYB92 enhances fatty acid synthesis and suberin deposition in leaves of *Nicotiana benthamiana*. *The Plant Journal*. 103, 660-676.
- Regnier, T., **Kazaz, S.**, Du Plessis, B., De Jager, K., Augustyn, W., Roux-Van der Merwe, R., Badenhorst, J. 2017. Quality and safety of *Sterculia murex*, a scientifically unknown nut from Southern Africa. *South African Journal of Botany*. 108, 287–293.

Referees

- **Sébastien Baud**
 - Institut Jean-Pierre Bourgin, INRAE Versailles, France.
 - Sebastien.baud@inrae.fr
- **Loïc Lepiniec**
 - Institut Jean-Pierre Bourgin, INRAE Versailles, France.
 - Loic.lepiniec@inrae.fr
- **Aymerick Eudes**
 - JointBioenergy Institute, Lawrence Berkeley National Laboratory, USA.
 - Ageudes@lbl.gov