

Stanford

Solene Moulin

Temp - Non-Exempt, Pathology Sponsored Projects #2

Publications

PUBLICATIONS

- **Genomes of nitrogen-fixing eukaryotes reveal a non-canonical model of organellogenesis.** *bioRxiv : the preprint server for biology*
Frail, S., Steele-Ogus, M., Doenier, J., Moulin, S. L., Braukmann, T., Xu, S., Yeh, E.
2024
- **The endosymbiont of Epithemia clementina is specialized for nitrogen fixation within a photosynthetic eukaryote.** *ISME communications*
Moulin, S. L., Frail, S., Braukmann, T., Doenier, J., Steele-Ogus, M., Marks, J. C., Mills, M. M., Yeh, E.
2024; 4 (1): ycae055
- **What do photosynthetic organisms need to thrive in all circumstances?** *The Plant cell*
Moulin, S.
2023
- **The way out: TPT3 allows triose-P export from the chloroplast.** *The Plant cell*
Moulin, S.
2023
- **The endosymbiont of Epithemia clementina is specialized for nitrogen fixation within a photosynthetic eukaryote.** *bioRxiv : the preprint server for biology*
Moulin, S. L., Frail, S., Doenier, J., Braukmann, T., Yeh, E.
2023
- **Crop plants move up a gear: Switching for a faster Rubisco in tobacco.** *The Plant cell*
Moulin, S.
2022
- **From the archives: Oxidative stress tolerance in Chlamydomonas and herbicide resistance in the weedy species Eleusine indica.** *The Plant cell*
Moulin, S.
2022
- **Get connected to the fungal network for improved transfer of nitrogen: the role of ZmAMT3;1 in ammonium transport in maize-arbuscular mycorrhizal symbiosis.** *The Plant cell*
Moulin, S.
2022
- **The big guy keeps the gate: The largest chloroplast-encoded protein, Orf2971, serves for translocation and quality control of chloroplast-imported proteins.** *The Plant cell*
Moulin, S. L.
2022
- **With a little help from my friends: mitochondria maintain redox balance for the endoplasmic reticulum.** *The Plant cell*
Moulin, S. L.
2022
- **Fatty acid photodecarboxylase is an ancient photoenzyme that forms hydrocarbons in the thylakoids of algae.** *Plant physiology*
Moulin, S. L., Beyly-Adriano, A. n., Cuiné, S. n., Blangy, S. n., Légeret, B. n., Floriani, M. n., Burlacot, A. n., Sorigué, D. n., Samire, P. P., Li-Beisson, Y. n., Peltier, G. n., Beisson, F. n.
2021

● **Mechanism and dynamics of fatty acid photodecarboxylase.** *Science (New York, N.Y.)*

Sorigué, D. n., Hadjidemetriou, K. n., Blangy, S. n., Gotthard, G. n., Bonvalet, A. n., Coquelle, N. n., Samire, P. n., Aleksandrov, A. n., Antonucci, L. n., Benachir, A. n., Boutet, S. n., Byrdin, M. n., Cammarata, et al
2021; 372 (6538)

● **Continuous photoproduction of hydrocarbon drop-in fuel by microbial cell factories** *SCIENTIFIC REPORTS*

Moulin, S., Legeret, B., Blangy, S., Sorigue, D., Burlacot, A., Auroy, P., Li-Beisson, Y., Peltier, G., Beisson, F.
2019; 9: 13713

● **An algal photoenzyme converts fatty acids to hydrocarbons** *SCIENCE*

Sorigue, D., Legeret, B., Cuine, S., Blangy, S., Moulin, S., Billon, E., Richaud, P., Brugiere, S., Coute, Y., Nurizzo, D., Mueller, P., Brettel, K., Pignol, et al
2017; 357 (6354): 903–7

● **A Selaginella moellendorffii Ortholog of KARRIKIN INSENSITIVE2 Functions in Arabidopsis Development but Cannot Mediate Responses to Karrikins or Strigolactones** *PLANT CELL*

Waters, M. T., Scaffidi, A., Moulin, S. Y., Sun, Y. K., Flematti, G. R., Smith, S. M.
2015; 27 (7): 1925–44