Stanford

Gabriel Ferreras Garrucho

Postdoctoral Scholar, Bioengineering

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BIO

Gabriel grew up in Seville, Spain, and earned a BA in Biochemistry and Biotechnology from the University of Seville, where he was introduced to plant molecular biology working on the interplay between flowering signalling and autophagy in Arabidopsis. He then moved to the United Kingdom to do a PhD in Plant Sciences in the University of Cambridge, in the group of Uta Paszkowski, working on the spatio-temporal regulation of arbuscular mycorrhizal symbiosis signalling in rice, followed by a Postdoctoral Researcher position in the same group optimising single-nuclei RNA-sequencing for the mutualism between rice and mycorrhizal fungi. In the Brophy lab, Gabriel is excited to work on the discovery and validation of cell-type-specific enhancers in sorghum using a combination of single-nuclei multi-omics, machine learning methods and high-throughput screens in protoplasts and in planta.

STANFORD ADVISORS

- Jennifer Brophy, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Spatiotemporal regulation of arbuscular mycorrhizal symbiosis at cellular resolution.** *The Plant cell*
  Chancellor, T., Ferreras-Garrucho, G., Akmakjian, G. Z., Montero, H., Bowden, S., Hope, M. S., Wallington, E., Bhattacharya, S., Korfhage, C., Bailey-Serres, J., Paszkowski, U.
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- **Integrating single-cell omic techniques to resolve the spatio-temporal complexity of arbuscular mycorrhizal symbiosis.** *Journal of experimental botany*
  Ferreras-Garrucho, G., Chancellor, T., Paszkowski, U.
  2025

- **Regulation of floral senescence in Arabidopsis by coordinated action of CONSTANS and jasmonate signaling.** *Molecular plant*
  Serrano-Bueno, G., de Los Reyes, P., Chini, A., Ferreras-Garrucho, G., Sánchez de Medina-Hernández, V., Boter, M., Solano, R., Valverde, F.
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- **A mycorrhiza-associated receptor-like kinase with an ancient origin in the green lineage.** *Proceedings of the National Academy of Sciences of the United States of America*
  Montero, H., Lee, T., Pucker, B., Ferreras-Garrucho, G., Oldroyd, G., Brockington, S. F., Miyao, A., Paszkowski, U.
  2021; 118 (25)