

Stanford

Sur Herrera Paredes

Basic Life Research Scientist

Biology

Bio

ACADEMIC APPOINTMENTS

- Basic Life Science Research Associate, Biology

Publications

PUBLICATIONS

- **GRINS: Genetic elements that recode assembly-line polyketide synthases and accelerate their diversification.** *Proceedings of the National Academy of Sciences of the United States of America*
Nivina, A., Herrera Paredes, S., Fraser, H. B., Khosla, C.
2021; 118 (26)
- **Genomic features of bacterial adaptation to plants.** *Nature genetics*
Levy, A. n., Salas Gonzalez, I. n., Mittelviehhaus, M. n., Clingenpeel, S. n., Herrera Paredes, S. n., Miao, J. n., Wang, K. n., Devescovi, G. n., Stillman, K. n., Monteiro, F. n., Rangel Alvarez, B. n., Lundberg, D. S., Lu, et al
2018; 50 (1): 138–50
- **Design of synthetic bacterial communities for predictable plant phenotypes.** *PLoS biology*
Herrera Paredes, S. n., Gao, T. n., Law, T. F., Finkel, O. M., Mucyn, T. n., Teixeira, P. J., Salas González, I. n., Feltcher, M. E., Powers, M. J., Shank, E. A., Jones, C. D., Jojic, V. n., Dangl, et al
2018; 16 (2): e2003962
- **Understanding and exploiting plant beneficial microbes.** *Current opinion in plant biology*
Finkel, O. M., Castrillo, G., Herrera Paredes, S., Salas González, I., Dangl, J. L.
2017; 38: 155-163
- **Root microbiota drive direct integration of phosphate stress and immunity** *NATURE*
Castrillo, G., Teixeira, P. J., Paredes, S. H., Law, T. F., de Lorenzo, L., Feltcher, M. E., Finkel, O. M., Breakfield, N. W., Mieczkowski, P., Jones, C. D., Paz-Ares, J., Dangl, J. L.
2017; 543 (7646): 513-?
- **Giving back to the community: microbial mechanisms of plant-soil interactions** *FUNCTIONAL ECOLOGY*
Paredes, S. H., Lebeis, S. L.
2016; 30 (7): 1043-1052
- **Salicylic acid modulates colonization of the root microbiome by specific bacterial taxa** *SCIENCE*
Lebeis, S. L., Paredes, S. H., Lundberg, D. S., Breakfield, N., Gehring, J., McDonald, M., Malfatti, S., del Rio, T. G., Jones, C. D., Tringe, S. G., Dangl, J. L.
2015; 349 (6250): 860-864
- **The Antipsychotic Olanzapine Interacts with the Gut Microbiome to Cause Weight Gain in Mouse** *PLOS ONE*
Morgan, A. P., Crowley, J. J., Nonneman, R. J., Quackenbush, C. R., Miller, C. N., Ryan, A. K., Bogue, M. A., Paredes, S. H., Yourstone, S., Carroll, I. M., Kawula, T. H., Bower, M. A., Sartor, et al
2014; 9 (12)
- **Promoter-proximal CCCTC-factor binding is associated with an increase in the transcriptional pausing index** *BIOINFORMATICS*
Paredes, S. H., Melgar, M. F., Sethupathy, P.

2013; 29 (12): 1485-1487

● **Defining the core *Arabidopsis thaliana* root microbiome** *NATURE*

Lundberg, D. S., Lebeis, S. L., Paredes, S. H., Yourstone, S., Gehring, J., Malfatti, S., Tremblay, J., Engelbrektson, A., Kunin, V., del Rio, T. G., Edgar, R. C., Eickhorst, T., Ley, et al

2012; 488 (7409): 86-?

● **Moonlighting Peptides with Emerging Function** *PLOS ONE*

Rodriguez Plaza, J. G., Villalon Rojas, A., Herrera, S., Garza-Ramos, G., Torres Larios, A., Amero, C., Zarraga Granados, G., Gutierrez Aguilar, M., Lara Ortiz, M. T., Polanco Gonzalez, C., Uribe Carvajal, S., Coria, R., Pena Diaz, et al

2012; 7 (7)