

Dr. Blanca R. Lopez

List of publications

- Lopez, B.R.**, Bacilio, M. 2020. Weathering and soil formation in hot, dry environments: weathering mediated by plant-microbe interactions in the Sonoran Desert. *Biology and Fertility of Soils*.
- Lopez, B.R.**, Palacios, O.A., Bashan, Y., Hernandez-Sandoval, F.E., de-Bashan, L.E. 2019. Riboflavin and lumichrome exuded by the bacterium *Azospirillum brasilense* promote growth and changes in metabolites in *Chlorella sorokiniana* under autotrophic conditions. *Algal Research* 44:101396.
- Palacios O.A., **Lopez B.R.**, Bashan Y., de-Bashan L.E. 2018. Early Changes in Nutritional Conditions Affect Formation of Synthetic Mutualism Between *Chlorella sorokiniana* and the Bacterium *Azospirillum brasilense*. *Microbial Ecology*.
- Garcia, E., **Lopez B. R.**, de-Bashan, L.E., Hirsch, A.M., Maymon, M., Bashan, Y. 2017. Functional metabolic diversity of the bacterial community in undisturbed resource island soils in the southern Sonoran Desert. *Land Degradation & Development*.
- Galaviz C., **Lopez BR.**, de-Bashan LE., Hirsch AM., Maymon M., Bashan Y. 2017. Root growth improvement of mesquite seedlings, bacterial rhizosphere, and soil community changes are induced by inoculation with plant growth-promoting bacteria and promote restoration of eroded desert soil. *Land Degradation & Development*.
- Moreno, M., de-Bashan, L. E., Hernandez, J. P., **Lopez, B. R.**, Bashan, Y. 2017. Success of long-term restoration of degraded arid land using native trees planted 11 years earlier. *Plant and Soil*, 421(1-2), 83-92.
- Lopez, B.R.**, Hernandez, J.P., Bashan, Y., and de-Bashan, L.E. 2017. Immobilization of microalgae cells in alginate facilitates isolation of DNA and RNA. *Journal of Microbiological Methods*. 135: 96-104.
- Franklin, K. A., Sommers, P. N., Aslan, C. E., **Lopez, B. R.**, Bronstein, J. L., Bustamante, E., ... Marazzi, B. 2016. Plant Biotic Interactions in the Sonoran Desert: Current Knowledge and Future Research Perspectives. *International Journal of Plant Sciences*, 177: 217-234.
- Marazzi B., Franklin K., Sommers P.N., Aslan C., **Lopez B.R.**, Bronstein J L., Bustamante O. E., Montijo-Burquez A. Medellín R. A. 2015. Plant biotic interactions in the Sonoran Desert: Current research, conservation, and future directions. *Journal of the Southwest*.
- Bashan, Y., **Lopez B.R.**, Huss, V. A. R., Amavizca, E., de-Bashan, L.E. 2016. *Chlorella sorokiniana* (formerly *C. vulgaris*) UTEX 2714, a non-thermotolerant microalga useful for biotechnological applications and as a reference strain. *Journal of Applied Phycology* 28:113-121.
- Lopez, B.R.**, Bashan, Y., Trejo, A., de-Bashan, L.E. 2013. Amendment of degraded desert soil with wastewater debris containing immobilized *Chlorella sorokiniana* and *Azospirillum brasilense* significantly modifies soil bacterial community structure, diversity, and richness. *Biology and Fertility of Soils* 49: 1053-1063.
- Lopez, B.R.**, Tinoco-Ojanguren, C., Bacilio, M., Mendoza, A., Bashan, Y., 2012. Endophytic bacteria of the rock-dwelling cactus *Mammillaria fraileana* affect plant growth and mobilization of elements from rocks. *Environmental and Experimental Botany* 81: 26-36.
- Bashan, Y., Salazar, B. G., Moreno M., **Lopez, B. R.** Linderman, R. G. 2012. Restoration of eroded soil in the Sonoran Desert with native leguminous trees using plant growth-promoting microorganisms and limited amounts of compost and water. *Journal of Environmental Management* 102: 26-36.

- Lopez, B.R.**, Bashan, Y., Bacilio, M., 2011. Endophytic bacteria of *Mammillaria fraileana*, an endemic rock-colonizing cactus of the Southern Sonoran Desert. *Archives of Microbiology* 193: 527-541.
- Lopez. B.R**, Bashan Y., Bacilio M. De la Cruz-Aguero G. 2009. Rock-colonizing plants: abundance of the endemic cactus *Mammillaria fraileana* related to rock type in the southern Sonoran Desert. *Plant Ecology* 201:575-588.