

Publications

We added 28 publications to the master bibliography this year, including two dissertations and one master's thesis. The latter was completed in 1981 by a botany student, John Hogue, at Rancho Santa Botanic Garden working on *Agave*. He happened to visit this last year, along with another student from the 1980's, as they were passing through the area. These older theses are hard to track down, so we were pleased to receive a hard copy of it.

1. Ahrendt, S. R., C. A. Quandt, D. Ciobanu, A. Clum, A. Salamov, B. Andreopoulos, J. F. Cheng, T. Woyke, A. Pelin, B. Henrissat, N. K. Reynolds, G. L. Benny, M. E. Smith, T. Y. James, and I. V. Grigoriev. 2018. Leveraging single-cell genomics to expand the fungal tree of life. *Nat Microbiol* **3**:1417-1428.
2. Braun, J., and C. J. Lortie. 2019. Finding the bees knees: A conceptual framework and systematic review of the mechanisms of pollinator-mediated facilitation. *Perspectives in Plant Ecology, Evolution and Systematics* **36**:33-40.
3. Ekwealor, J. T. B. 2020. A Suntan Effect in the Mojave Desert Moss *Syntrichia caninervis*. Pages 15-19 in T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2020. National Park Service & UC Natural Reserve System, Barstow, CA.
4. Filazzola, A., A. R. Liczner, M. Westphal, and C. J. Lortie. 2019. Shrubs indirectly increase desert seedbanks through facilitation of the plant community. *Plos One* **14**:e0215988.
5. Hogue, J. 1981. Pollination Biology of *Agave utahensis* var. *nevadensis*. Master of Arts. Claremont Graduate School.
6. Iknayan, K. J., and S. R. Beissinger. 2018. Collapse of a desert bird community over the past century driven by climate change. *Proceedings of the National Academy of Sciences of the United States of America* **115**:8597-8602.
7. Kaiser, D., and D. L. Hughson. 2020. The Dome Fire. Page 20 in T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2020. National Park Service & UC Natural Reserve System, Barstow, CA.
8. Langenheim, V. E. 2020. Using Gravity to Map Faults and Basins in the Mojave Desert, California. Pages 9-14 in T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2020. National Park Service & UC Natural Reserve System, Barstow, CA.
9. Lease, R. O., N. McQuarrie, M. Oskin, and A. Leier. 2009. Appendix from R. O. Lease et al., "Quantifying Dextral Shear on the Bristol-Granite Mountains Fault Zone: Successful Geologic Prediction from Kinematic Compatibility of the Eastern California Shear Zone.". *Journal of Geology* **117**:37.
10. Liczner, A. R., A. Filazzola, M. Westphal, and C. J. Lortie. 2019. Shrubs facilitate native forb re-establishment in an invaded arid shrubland. *Journal of Arid Environments* **170**:103998.
11. McAuliffe, J. 2020. Pre-Eurosettlement Wildfires in Mojave National Preserve. Pages 1-8 in T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2020. National Park Service & UC Natural Reserve System, Barstow, CA.
12. O'Meara, B. C., C. Ane, M. J. Sanderson, and P. C. Wainwright. 2006. Testing for different rates of continuous trait evolution using likelihood. *Evolution* **60**:922-933.

13. Osorio-Santosab, K., N. Pietrasiak, M. Bohunickáacd, L. H. Miscoea, L. Kováčike, M. P. Martina, and J. R. Johansen. 2014. Seven new species of *Oculatella* (Pseudanabaenales, Cyanobacteria): taxonomically recognizing cryptic diversification. *Eur. J. Phycol.* **49**:450–470.
14. Pahua, V. J., P. J. N. Stokes, A. C. Hollowell, J. U. Regus, K. A. Gano-Cohen, C. E. Wendlandt, K. W. Quides, J. Y. Lyu, and J. L. Sachs. 2018. Fitness variation among host species and the paradox of ineffective rhizobia. *Journal of Evolutionary Biology* **31**:599-610.
15. Pombubpa, N., N. Pietrasiak, P. De Ley, and J. E. Stajich. 2020. Insights into dryland biocrust microbiome: geography, soil depth and crust type affect biocrust microbial communities and networks in Mojave Desert, USA. *FEMS Microbiol Ecol* **96**.
16. Regus, J. U. 2014. Effects of Mineral Nitrogen on Host Control in Legume-Rhizobium Symbiosis. Ph.D. dissertation. University of California, Riverside, Riverside, CA.
17. Regus, J. U., K. A. Gano, A. C. Hollowell, V. Sofish, and J. L. Sachs. 2015. Lotus hosts delimit the mutualism-parasitism continuum of Bradyrhizobium. *Journal of Evolutionary Biology* **28**:447-456.
18. Regus, J. U., C. E. Wendlandt, R. M. Bantay, K. A. Gano-Cohen, N. J. Gleason, A. C. Hollowell, M. R. O'Neill, K. K. Shahin, and J. L. Sachs. 2017. Nitrogen deposition decreases the benefits of symbiosis in a native legume. *Plant and Soil* **414**:159-170.
19. Reynolds, N. K., G. L. Benny, H. M. Ho, Y. H. Hou, P. W. Crous, and M. E. Smith. 2019. Phylogenetic and morphological analyses of the mycoparasitic genus *Piptocephalis*. *Mycologia* **111**:54-68.
20. Riddell, E. A., K. J. Iknayan, B. O. Wolf, B. Sinervo, and S. R. Beissinger. 2019. Cooling requirements fueled the collapse of a desert bird community from climate change. *Proceedings of the National Academy of Sciences of the United States of America* **116**:21609-21615.
21. Sachs, J. L., K. A. Gano, A. C. Hollowell, and J. U. Regus. 2013. The Legume-Rhizobium Symbiosis: an integrative evolutionary perspective *Global Biogeochem. Cycles* **13**:623-645.
22. Sizek, J. 2014. Interviews with the Native American Land Conservancy. Summer 2014 Vol. 27, Issue 4. Pages 40-44. *News from Native California*. Heyday, Berkeley, CA.
23. Sizek, J. 2019. *Our Ramona: Multicultural Dreams and Legacies of the Great California Outdoor Play. Boom*. University of California Press, Berkeley, CA.
24. Unitt, P., and L. Hargrove. 2018. Southward and downslope extensions of breeding ranges of birds in southern California. Pages 85-115 in W. D. Shuford, R. E. G. Jr., and C. M. Handel, editors. *Trends and Traditions: Avifaunal Change in Western North America*. Studies of Western Birds 3. Western Field Ornithologists, Camarillo, CA.
25. Van Dam, M. H. 2013. Comparative Biogeography of Dune-Restricted Insects in the Desert Southwest. Ph.D. Dissertation. University of California, Berkeley.
26. Van Dam, M. H., and N. J. Matzke. 2016. Evaluating the influence of connectivity and distance on biogeographical patterns in the south-western deserts of North America. *Journal of Biogeography* **43**:1514-1532.
27. Van Dam, M. H., and C. W. O'Brien. 2015. Review of the genus *Miloderes* Casey, 1888 (Coleoptera: Curculionidae: Entiminae), with descriptions of three new species. *Zootaxa* **4006**:247-284.
28. Van Dam, M. H., A. J. Rominger, and M. S. Brewer. 2019. Environmental niche adaptation revealed through fine scale phenological niche modelling. *Journal of Biogeography* **46**:2275-2288.