

**FY 2013-14 NRS Annual Report  
PART 5. Publications**

Campus: Riverside  
Reserve: Sweeney Granite Mountains Desert Research Center  
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- Baker, M. A. and M. A. Cloud-Hughes. 2014. *Cylindropuntia chuckwallensis* (Cactaceae), a New Species from Riverside and Imperial Counties, California. *Madrono* **61**:231-243.
- Beever, E. A. and D. A. Pyke. 2005. Short-term responses of desert soil and vegetation to removal of feral burros and domestic cattle (California). *Ecological Restoration* **23**:279-280.
- Cahan, S. H. and K. R. Helms. 2012. Relatedness does not explain geographic variation in queen cooperation in the seed-harvester ant *Messor pergandei*. *Insectes Sociaux* **59**:579-585.
- Cahan, S. H. and K. R. Helms. 2014. Variation in social structure alters queen body mass and productivity in the desert seed-harvester ant *Messor pergandei*. *Insectes Sociaux* **61**:153-161.
- De Ley, P. 2014. Past and present highlights of nematode research in the Mojave Desert. Pages 5-10 in D. L. Hughson and T. La Doux, editors. *Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Special Edition, May 2014*. . Mojave National Preserve, Barstow, CA.
- Elvin, M. A., J. L. Anderson, and A. C. Sanders. 2013. *Monardella eplingii*, a New Species from the Black Mountains of Northwestern Arizona, USA. *Madrono* **60**:46-54.
- Eppe, M. C., E. V. McDonald, and L. D. McFadden. 2003. Soil geomorphological studies in the Mojave Desert: Impacts of Quaternary tectonics, climate, and rock type on soils, landscapes, and plant community ecology. Pages 105-122 in D. Easterbrook, editor. *Quaternary Geology of the United States: INQUA 2003 Field Guide Volume*. Desert Research Institute, Reno, NV.
- Gaddis, K. D. 2014. Watching plants move: Tracking landscape effects on movement in the comon desert shrub catclaw acacia [*Acacia (Senegalia) greggii* A Gray]. Pages 13-17 in D. L. Hughson and T. La Doux, editors. *Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Special Edition, May 2014*. . Mojave National Preserve, Barstow, CA.
- Gottscho, A. D. 2014. Genetic research reveals Pleistocene origin and low genetic diversity of the Mojave Fringe-toed Lizard (*Uma scoparia*). Pages 1-5 in D. L. Hughson and T. La Doux, editors. *Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Special Edition, May 2014*. . Mojave National Preserve, Barstow, CA.
- Hankamp, P. Z. 2012. Molecular systematics of *Leptosiphon* (Polemoniaceae). Master of Science. San Francisco State University.
- Harvey, J. C. 2014. Zircon age and oxygen isotopic correlations between Bouse Formation tephra and the Lawlor Tuff. *Geosphere* **10**:221-232.
- Helms, K. R. and S. H. Cahan. 2012. Large-scale regional variation in cooperation and conflict among queens of the desert ant *Messor pergandei*. *Animal Behaviour* **84**:499-507.
- Helms, K. R., N. J. Newman, and S. H. Cahan. 2013. Regional variation in queen and worker aggression in incipient colonies of the desert ant *Messor pergandei*. *Behavioral Ecology and Sociobiology* **67**:1563-1573.

- Heraty, J. 2014. Three wasps, three plants, one ant: Life history of desert *Oreasema*. Pages 11-12 in D. L. Hughson and T. La Doux, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Special Edition, May 2014. . Mojave National Preserve, Barstow, CA.
- Heraty, J., R. A. Burks, A. Cruaud, G. A. P. Gibson, J. Liljeblad, J. Munro, J. Y. Rasplus, G. J. Delvare, P., A. Gumovsky, J. Huber, J. B. Woolley, L. Krogmann, S. Heydon, A. Polaszek, S. Schmidt, D. C. Darling, M. W. Gates, J. Mottern, E. Murray, A. Dal Molin, S. Triapitsyn, H. Baur, J. D. Pinto, S. van Noort, J. George, and M. Yoder. 2013. A phylogenetic analysis of the megadiverse Chalcidoidea (Hymenoptera). *Cladistics* **29**:466-542.
- Hühn, P. 2014. *Salvia apiana* - a carpenter bee blossom? Pollination ecological studies in southern California. Diploma Thesis. University of Mainz, Mainz, Germany.
- Kim, J.-W. and J. Heraty. 2012. A phylogenetic analysis of the genera of Aphelininae (Hymenoptera: Aphelinidae), with a generic key and descriptions of new taxa. *Systematic Entomology* **37**:497-549.
- La Doux, T. and J. M. Andre. 2014. Sweeney Granite Mountains Desert Research Center: a hub for research and learning in the Mojave Desert. Pages 25-28 in D. L. Hughson and T. La Doux, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Special Edition, May 2014. . Mojave National Preserve, Barstow, CA.
- Murray, E. A., A. E. Carmichael, and J. Heraty. 2013. Ancient host shifts followed by host conservatism in a group of ant parasitoids. *Proceedings of the Royal Society B-Biological Sciences* **280**.
- Nosratinia, S. 2013. Evolutionary relationships in sand verbenas: insights from DNA sequence data. Master of Science. San Francisco State University.
- Ocampo, G. 2013. Morphological characterization of seeds in Portulacaceae. *Phytotaxa* **141**:1-24.
- Ocampo, G. and J. T. Columbus. 2012. Molecular phylogenetics, historical biogeography, and chromosome number evolution of *Portulaca* (Portulacaceae). *Molecular Phylogenetics & Evolution* **63**:97-112.
- Ocampo, G., N. K. Koteyeva, E. V. Voznesenskaya, G. E. Edwards, T. L. Sage, R. F. Sage, and J. T. Columbus. 2013. Evolution of leaf anatomy and photosynthetic pathways in Portulacaceae. *American Journal of Botany* **100**:2388-2402.
- Sheth, S. N. 2014. Determinants of geographic distribution in western North American Monkeyflowers. Ph.D. Dissertation. Colorado State University, Fort Collins, CO.
- Stevenson, B. A., E. V. McDonald, and T. G. Caldwell. 2009. Root patterns for *Larrea tridentata* in relation to soil morphology in Mojave Desert soils of different ages. Pages 312-338 in R. H. Webb, L. F. Fenstermaker, J. S. Heaton, D. L. Hughson, E. V. McDonald, and D. M. Miller, editors. *The Mojave Desert: ecosystem processes and sustainability*. University of Nevada Press.
- Still, S. M. 2014. New poppies from the Mojave. Pages 18-25 in D. L. Hughson and T. La Doux, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Special Edition, May 2014. . Mojave National Preserve, Barstow, CA.
- Still, S. M. 2014. Two new desert *Eschscholzia* (Papaveraceae) from southwestern North America. *PhytoKeys* **35**:45-56.