

Publications

Each year we ask our researchers to keep us informed of any publications resulting from research facilitated by the Center. We track all different kinds of publications, including dissertations and theses, peer-reviewed academic papers, books, government reports, and more. Currently we have over 750 publications on our list, most of which (~60%) are peer-reviewed articles in academic journals but nearly 10% are dissertations or theses. This year we added 16 publications to our list, one of which was a dissertation written by James Mickley (University of Connecticut) on five-merism in flowering plants. We like to highlight the hard work of the many graduate students that begin their careers here at the Center, many of whom end up coming back in the future as faculty members with their own students.

- 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 (English).
- 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 (English).
- Crews, S. C., and L. A. Esposito. 2017. Desert salt flats as refugia for terrestrial arthropods. Pages 4-7 in D. L. Hughson, T. La Doux, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, April 2017. Mojave National Preserve, Barstow, CA.
- Gerst, K. L., and D. L. Venable. 2017. Phenology mediates reproductive success in the desert annual *Chylismia brevipes*. Pages 8-12 in D. L. Hughson, T. La Doux, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, April 2017. Mojave National Preserve, Barstow, CA.
- Gosse, J. C. 2012. Terrestrial cosmogenic nuclide techniques for assessing exposure history of surfaces and sediments in active tectonic regions. In C. Busby and A. Azor [eds.], *Tectonics of Sedimentary Basins: Recent Advances*, 63-79. Blackwell Science Publ, Oxford.
- Gosse, J. C., and F. M. Phillips. 2001. Terrestrial in situ cosmogenic nuclides: theory and application. *Quaternary Science Reviews* 20: 1475-1560 (English).
- Hargrove, L., P. Unitt, L. Squires, and T. Maikis. 2017. Grinnell resurveys document the colonization of the Zone-tailed Hawk (*Buteo albonotatus*) in Mojave National Preserve. Pages 1-3 in D. L. Hughson, T. La Doux, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, April 2017. Mojave National Preserve, Barstow, CA.
- Hereford, J. 2017. Thermal Performance Curves Reveal Variation in the Seasonal Niche of a Short-Lived Annual. *Integrative and Comparative Biology* 57: 1010-1020 (English).
- Hereford, J., J. Schmitt, and D. D. Ackerly. 2017. The seasonal climate niche predicts phenology and distribution of an ephemeral annual plant, *Mollugo verticillata*. *Journal of Ecology* 105: 1323-1334 (English).
- Jezkova, T., J. R. Jaeger, V. Olah-Hemmings, K. B. Jones, R. A. Lara-Resendiz, D. G. Mulcahy, and B. R. Riddle. 2016. Range and niche shifts in response to past climate change in the desert horned lizard *Phrynosoma platyrhinos*. *Ecography* 39: 437-448 (English).
- Kates, H. R., P. S. Soltis, and D. E. Soltis. 2017. Evolutionary and domestication history of Cucurbita (pumpkin and squash) species inferred from 44 nuclear loci. *Molecular Phylogenetics and Evolution* 111: 98-109 (English).

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- Landis, J. B., D. E. Soltis, and P. S. Soltis. 2017. Comparative transcriptomic analysis of the evolution and development of flower size in *Saltugilia* (Polemoniaceae). *Bmc Genomics* 18: 15 (English).
- Landis, J. B., R. D. O'Toole, K. L. Ventura, M. A. Gitzendanner, D. G. Oppenheimer, D. E. Soltis, and P. S. Soltis. 2016. The Phenotypic and Genetic Underpinnings of Flower Size in Polemoniaceae. *Frontiers in Plant Science* 6: 20 (English).
- Leigh, A., S. Sevanto, M. C. Ball, J. D. Close, D. S. Ellsworth, C. A. Knight, A. B. Nicotra, and S. Vogel. 2012. Do thick leaves avoid thermal damage in critically low wind speeds? *New Phytologist* 194: 477-487 (English).
- Mickley, J. G. 2017. The adaptive Nature of Stasis for Petal Number: Can Pollinator-Mediated Stabilizing Selection Explain Five-petaled Flowers? Doctor of Philosophy, University of Connecticut.
- Whitford, M. D., G. A. Freymiller, J. M. Ryan, D. P. J. Steele, C. N. Tapia, and R. W. Clark. 2017. *Chionactis occipitalis*: hypomelanism. *Herpetology Notes* 10: 411-412.