2018 Selected Publications

Golabi, M.H., S. Manibusan, T. Righetti, D. Okano. 2018. Using vetiver grass technology for mitigating sediment loads in the Talakhaya Watershed in Rota, CNMI. International Soil and Water Conservation Research Journal, Vol.6. https://doi.org/10.1016/j.iswcr.2018.03.001

Gawel, A. M., H. S. Rogers, R. H. Miller, A. M. Kerr. 2018. Contrasting roles of non-native ungulates in a novel ecosystem. Royal Society Open Science 5: 170151. https://doi.org/10.1098/rsos.170151.

Novotny, R., J. Davis, C. J. Butel, M.K. Boushey, C.R. Fialkowski, Nigg, K.L. Braun, R.T. Leon Guerrero, P. Coleman, A. Bersamin, A.A.R. Areta, L.R. Barber, T. Belyeu-Camacho, J. Greenberg, T. Fleming, E. Dela Cruz-Talbert, A. Yamanaka, L.R. Wilkens. 2018. Effect of the Children's Healthy Living Program on Young Child Overweight, Obesity, and Acanthosis Nigricans in the US Affiliated Pacific Region: A Randomized Controlled Trial. JAMA Network Open. https://doi: 10.1001/jamanetworkopen.2018.3896.

Novotny R., L.R. Wilkens, C.R. Nigg, K. Braun, J. Butel, A. Areta, P. Coleman, T. Belyeu-Camacho, J. Greenberg, A. Bersamin, R.T. Leon Guerrero, L.R. Barber, M.K. Fialkowski, E. De la Cruz-Talbert. 2017. Effectiveness of the Children's Healthy Living (CHL) Multilevel Multicomponent Community Intervention Program in 5 US Affiliated Pacific Jurisdictions. The FASEB Journal. 31:640.37.

Marler, T.E. and P.N. Marler. 2018. Rhyzobius lophanthae behavior is influenced by cycad plant age providing odor samples in Y-tube olfactometer. Insects 9:194. https://doi.org/10.3390/insects9040194.

Marler, T.E. and M.V. Krishnapillai. 2018. Does plant size influence leaf elements in an arborescent cycad? Biology 7:51. https://doi.org/10.3390/biology7040051.

Marler, T.E. 2018. Leaf damage by phytophagous beetles alters Terminalia catappa green and senesced leaf chemistry. International Terminalia catappa green and senesced leaf chemistry. International Journal of Insect Science 10:1-5. https://doi.org/10.1177/1179543318797329.

Marler, T.E. 2018. Stem carbohydrates and adventitious root formation of Cycas micronesica following Aulacaspis yasumatsui infestation. HortScience 53:1125-1128. https://doi.org/10.21273/HORTSCI13170-18.

Marler, T.E. 2018. Axial and radial spatial patterns of non-structural carbohydrates in Cycas micronesica stems. Plants 7:49.

Marler, T.E. 2018. Coconut leaf age and coconut rhinoceros beetle herbivory influence leaflet nutrients, metals, and lignin. Horticulturae 4:9. https://doi.org/10.3390/horticulturae4020009.

Marler, T.E. 2018. Host tree identity influences leaf nutrient relations of the epiphyte Dendrobium guamense Ames. Horticulturae 4:43. https://doi.org/10.3390/horticulturae4040043.

Marler, T.E. and A.N.J. Cascasan. 2018. Carbohydrate depletion during lethal infestation of Aulacaspis yasumatsui on Cycas revoluta. Int. J. Plant Sci. 179:497-504. https://doi.org/10.3390/plants7030049.

Marler, T.E. and A.J. Lindström. 2018. Scouting the Philippines for Cycas. Memoirs New York Botanical Garden 117 :519-528. http://dx.doi.org/10.21135/893275389.033.

Marler, T.E. and A.J. Lindström. 2018. Inserting cycads into global nutrient relations data sets. Plant Signaling and Behavior 13: https://doi.org/10.1080/15592324.2018.1547578.

Marler, T.E., A.J. Lindström, W. Field. 2018. Range, density, and threatened status of Cycas nongnoochiae. Memoirs New York Botanical Garden. 117: 86-94. http://dx.doi.org/10.21135/893275389.008.

Marler, T.E and M.V. Krishnapillai. 2018. Cycas micronesica trees alter local soil traits. Forests 9:565. https://doi.org/10.3390/f9090565.

Marler, T.E. and R. del Moral. 2018. Increasing topographic influence on vegetation structure during primary succession. Plant Ecology 219: 1009-1020. DOI:10.1007/s11258-018-0853-z.

Dongol, N. and T.E. Marler. 2018. Season and frequency of Cycas micronesica leaf and reproductive events. Memoirs New York Botanical Garden. 117:497-503. DOI:10.21135/893275389.031.

Terry, I., C. Calonje, M.S. Calonje, T.E. Marler. 2018. Thermogenesis patterns in selected Cycas species. Memoirs New York Botanical Garden. 117:410-432. DOI:10.21135/893275389.027.

Marler, T.E. 2018. Bi-directional acclimation of Cycas micronesica leaves to abrupt changes in incident light in understory and open habitats. Photosynthetica 56:776-785. https://doi.org/10.1007/s11099-017-0730-3.

Marler, T.E. 2018. Elemental profiles in Cycas micronesica stems. Plants 7:94. https://doi.org/10.3390/plants7040094.

Faouzi, M., R.P. Neupane, J. Yang, P. Williams, R. Penner. 2018. Areca nut extracts mobilize calcium and release pro-inflammatory cytokines from various immune cells. Scientific Reports 8:1075. https://doi.org/10.1038/s41598-017-18996-2.

Freedman, M.G., R.H. Miller, and H.S. Rogers. 2018. Landscape-level bird loss increases the prevalence of honey-dew-producing insects and non-native ants. Oecologia. https://doi.org/10.1007/s00442-018-4273-5.

Martinez, M., M. Marutani, J.A. Soria. 2018. Characterization of crude and biodiesel oils of Jatropha curcas and Calophyllum inophyllum in Guam. Micronesica 1: 1-15.

Marutani, M. 2018. Calamansi (× Citrofortunella microcarpa) for potential citrus fruit production for the island of Guam. Acta Horticulturae. https://doi.org/10.17660/ActaHortic.2018.1205.49

2017 Selected Publications

Rogers, H., E. Buhle, J.H. Ris Lambers, E. Fricke, R. Miller, J. Tewksbury. 2017. Effects of an invasive predator cascade to plants via mutualism disruption. Nature Communications 8: 14557. PMID 28270682 https://10.1038/ncomms14557

Leon Guerrero R.T., R. Novotny, L.R. Wilkens, M. Chong, K.K. White, Y.B. Shvetsov, A. Buyum,

G. Badowski, M. Blas-Laguana. 2017. Risk Factors for Breast Cancer in the Breast Cancer Risk Model study of Guam and Saipan. Cancer Epidemiology. 50PB:221-223. https://doi:10.1016/j.canep.2017.04.008

Matanane L., J. Silva, F. Li, R.T. Leon Guerrero, R. Novotny, R. Barber, M. Fialkowski. 2017. "Para I Famagu'onTa": Fruit and Vegetable Intake , Food Store Environment, and Childhood Overweight/Obesity in the Children's Healthy Living Program on Guam. Hawaii J Med & Pub Health. 76(8): 225-233.

Novotny R., F. Li, L. Wilkens, M. Fialkowski, T. Fleming, P. Coleman, R.T. Leon Guerrero, A. Bersamin, J. Deenik. 2017. Economic Influences on Child Growth Status, from the Children's Healthy Living Program in the US-Affiliated Pacific Region. ADBI Working Paper 698. Tokyo: Asian Development Bank Institute. https://www.adb.org/publications/economic-influences-child-growth-status

K.M. Yonemori, T. Ennis, R. Novotny, M.K. Fialkowski, R. Ettienne, L.R. Wilkens, R.T. Leon Guerrero, A. Bersamin, P. Coleman, F. Li, C.J. Boushey. 2017. Collecting wrappers, labels, and packages to enhance accuracy of food records among children 2–8 years in the Pacific region: Children's Healthy Living Program (CHL). Journal of Food Composition and Analysis. 64:112-118. https://doi.org/10.1016/j.jfca.2017.04.012.

Novotny R., F. Li, R.T. Leon Guerrero, P. Coleman, A.A. Ropeti Areta, A. Bersamin, J. Deenik, L. Wilkens. 2017. Dual Burden of Malnutrition in US Affiliated Pacific Jurisdictions in the Children's Healthy Living Program. BMC Public Health. 17:483. https://doi:10.1186/s12889-017-4377-6.

Marler, T.E. 2017. Soil chemistry following afforestation of barren coastal soils in Southern Guam does not conform to that of continuously vegetated surfaces. Journal of Coastal Zone Management 20:2. https://doi:10.4172/2473-3350.1000444.

Marler, T.E. 2017. Increasing relevance of sunfleck research. Plant Signaling & Behavior 12:e1334030. https://doi:10.1080/15592324.2017.1334030.

Marler, T.E. 2017. Bi-directional acclimation of Cycas micronesica leaves to abrupt changes in incident light in understory and open habitats. Photosynthetica 55. https://doi:10.1007/s11099-017-0730-3.

Marler, T.E. 2017. Diel root extension patterns of three Serianthes species are modulate by plant size. Plant Signaling & Behavior 12:e1327496. https://doi:10.1080/15592324.2017.1327496.

Marler, T.E. 2017. Asexual reproduction to propel recovery efforts of the critically endangered Håyun Lågu tree (Serianthes nelsonii Merr.). Tropical Conservation Science 10:1-10. https://doi:10.1177/1940082917697707.

Marler, T.E. 2017. Horticultural research crucial for plant conservation and ecosystem restoration. HortScience 52. https://doi:10.21273/HORTSCI12423-17.

Marler, T.E. and G.N. Cruz. 2017. Adventitious rooting of mature Cycas micronesica K.D. Hill

tree stems reveals moderate success for salvage of an endangered cycad.
Journal of Threatened Taxa 9:10565-10570.
https://doi:10.11609/jott.3523.9.8.10565-10570.

Marler, T.E. and G.N. Cruz. 2017. Best protocols for cycad propagation require more research.
Journal of Threatened Taxa 9:10738-10740.
https://doi:10.11609/jott.3812.9.9.10738-10740.

Marler, T.E. and U.F. Ferreras. 2017. Current status, threats, and conservation needs of the
endemic Cycas wadei Merrill. Journal of Biodiversity & Endangered Species 5:193.
https://doi:10.4172/2332-2543.1000193.

Marler, T.E., A.J. Lindström, and P.N. Marler. 2017. Diversity in Cycas (Cycadales: Cycadaceae) species
offered as larval food influences fecundity of Chilades pandava (Lepidoptera: Lycaenidae) adults.
International Journal of Insect Science 9:1-6.
https://doi:10.1177/1179543317745863.

Marler, T.E. and A.J. Lindström. 2017. First, do no harm. Communicative & Integrative Biology 10:e1393593.
doi:10.1080/19420889.2017.1393593.

Skelley, P., G. Xu, W. Tang, A.J. Lindström, T. Marler, J.S. Khuraijam, R. Singh, P. Radha, S. Rich. 2017.
Review of Cycadophila Xu, Tang & Skelley inhabiting Cycas (Cycadaceae) in Asia, with descriptions
of a new subgenus and thirteen new species. Zootaxa 4267:1–63.
https://doi.org/10.1016/j.jip.2017.07.006.

Rogers, H., E. Buhle, J. Hille Ris Lambers , E. Fricke , R. Miller, J. Tewksbury. 2017. Effects of an invasive
predator cascade to plants via mutualism disruption. Nature Communications.
https://doi:10.1038/ncomms14557.

Marshall, S. D. G., A. Moore, M. Vaqalo, A. Noble, T.A. Jackson. 2017. A new haplotype of the
coconut rhinoceros beetle, Oryctes rhinoceros, has escaped biological control by Oryctes rhinoceros
nudivirus and is invading Pacific Islands. Journal of Invertebrate Pathology. 149: 127–134.
https://doi.org/10.1016/j.jip.2017.07.006.

Moore, A., D.C. Barahona, K.A. Lehman, D.D. Skabeikis, I.R. Iriarte, E.B. Jang, M.S. Siderhurst. 2017.
Judas Beetles: Discovering Cryptic Breeding Sites by Radio-Tracking Coconut Rhinoceros Beetles,
Oryctes rhinoceros (Coleoptera: Scarabaeidae). Environmental Entomology. 46(1): 92–99.
https://doi.org/10.1093/ee/nvw152.

2016 Selected Publications

Farnoosh, M., A.A. Ghaemi, M.H. Golabi. 2016. Interaction effects of water salinity and hydroponic growth
medium on eggplant yield, water-use efficiency, and evapotranspiration. International Soil and Water
Conservation Research Journal. Elsevier 4:2 99-107. http://dx.doi.org/10.1016/j.iswcr.2016.04.001.

Nigg, C.R, M.U. Anwar, K.L. Braun. J. Mercado, M.K. Fialkowski, A.A. Ropeti Areta, T. Belyeu-Camacho,
A. Bersamin, R.T. Leon Guerrero, R. Castro, B. DeBaryshe, A.M. Vargo, M. Van der Ryn, K.W. Braden,
R.A. Novotny. 2016. Review of Promising Multicomponent Environmental Child Obesity Prevention

Intervention Strategies by the Children's Healthy Living Program. Journal of Environmental Health. 79(3): 18-26.

Novotny, R., F. Li, M.K. Fialkowski, A. Bersamin, A.A. Ropeti Areta, J. Deenik, P. Coleman, R.T. Leon Guerrero, L. Wilkens. 2016. Prevalence of obesity and acanthosis nigricans among young children in the Children's Healthy Living Program in the United States Affiliated Pacific. Medicine. 95:37(e4711). https://doi.org/10.1097/MD0000000000004711.

Yamanaka, A., M.K. Fialkowski, L. Wilkens, F. Li, R. Ettienne, T. Fleming, J. Power. J. Deenik, P. Coleman, R.T. Leon Guerrero, R. Novotny. 2016. Quality assurance of data collection in the multi-site community randomized trial and prevalence survey of the Children's Healthy Living Program. BMC Research Notes. 9:432. DOI:10.1186/s13104-016-2212-2.

Maskarinec, G., Y. Morimoto, M.S. Blas-Laguana, R. Novotny, R.T. Leon Guerrero. 2016. Bioimpedence to Assess Breast Density as a Risk Factor for Breast Cancer in Adult Women and Adolescent Girls. Asia Pac J Cancer Prev. 17(1):65-71. DOI:10.7314/APJCP.2016.17.1.65.

Cascasan, A.N. and T.E. Marler. 2016. Publishing trends for the Cycadales, the most threatened plant group. Journal of Threatened Taxa 8:8575-8582.

Marler, T.E. and N. Dongol. 2016. Seed ontogeny and nonstructural carbohydrates of Cycas micronesica megagametophyte tissue. HortScience 51:1144-1147.

Marler, T.E. and N. Dongol. 2016. Three invasive insects alter Cycas micronesica leaf chemistry and predict changes in biogeochemical cycling. Communicative & Integrative Biology e1208324. http://dx.doi.org/10.1080/19420889.2016.1208324.

Marler, T.E., N. Dongol, and G.N. Cruz. 2016. Leucaena leucocephala and adjacent native limestone forest habitats contrast in soil properties on Tinian Island. Communicative & Integrative Biology e1212792. http://dx.doi.org/10.1080/19420889.2016.1212792.

Marler, T.E., N. Dongol, and G.N. Cruz. 2016. Plastic responses mediated by identity recognition in below-ground competition in Cycas micronesica K.D. Hill. Tropical Conservation Science 9:648-657.

Marler, T.E., J.H. Lawrence, and G.N. Cruz. 2016. Topographic relief, wind direction, and conservation management decisions influence Cycas micronesica K.D. Hill population damage during tropical cyclone. J. Geography & Natural Disasters 6:3. http://dx.doi.org/10.4172/2167-0587.1000178

Marler, T.E., A.J. Lindström, and P.N. Marler. 2016. Chilades pandava mothers discriminate among Cycas species during oviposition choice tests, but only in an endemic naïve population. Plant Signaling & Behavior, DOI: 10.1080/15592324.2016.1208879

Marler, T.E. and C. Musser. 2016. Chemical and air pruning of roots influence post-transplant root traits of the critically endangered Serianthes nelsonii. Plant Root 10:21-25.

Moore, A., D.C. Barahona, K.A. Lehman, D.D. Skabeikis, I.R. Iriarte, E.B. Jang, M.S. Siderhurst. 2016. Judas Beetles: Discovering Cryptic Breeding Sites by Radio-Tracking Coconut Rhinoceros Beetles, Oryctes rhinoceros (Coleoptera: Scarabaeidae). Environmental Entomology nvw152. doi: 10.1093/ee/nvw152

Moore A., R. Quitugua, I.R. Iriarte, M. Melzer, S. Watanabe, Z. Cheng, J.M. Barnes. 2016. Movement of

packaged soil products as a dispersal pathway for coconut rhinoceros beetle, Oryctes rhinoceros (Coleoptera: Scarabaeidae) and other invasive species. Proceedings of the Hawaiian Entomological Society 48:21–22. http://hdl.handle.net/10125/42743

Wiecko, G. 2016. Green roofs in the tropics conserve energy. The Open Atmospheric Science Journal 10: 1-5.

Yang, J. and J. R. Powers. 2016. Effects of high pressure on food proteins. In: Balasubramaniam, V. M.; Barbosa-Canovas, V. G.; Lelieveld, L. M. H., editors. High Pressure Processing of Food: Principles, Technology and Applications. Springer New York: New York, NY; pp 353-389.
Yang, J., S.J. Afaisen, R. Gadi. 2016. Antimicrobial activity of noni fruit essential oil on Escherichia coli O157:H7 and Salmonella Enteritidis. Micronesica 05: 1-10.

Kerr, A. M. and G. C. Fiedler. 2016. Sinistral coiling in the arboreal snail Partula gibba Férussac, 1821 (Partulidae: Stylommatophora) from Guam, Mariana Islands, Micronesia.
American Malacological Bulletin 34: 1–5.