

DEPARTMENT OF BOTANY PUBLICATIONS: 2010 – present

* = student at time of research

Publications of Faculty:

- Abbott, I.A. and C.M. Smith. 2010. Lawrence Rogers Blinks 1900- 1989. A biographical memoir. National Academy of Sciences. 19 pg. on-line publication, www.nasonline.org
- Abbott, I.A., R. Riosmena-Rodriques, A. Kato, C. Squair, T. Michael and C.M. Smith. 2012. Crustose coralline algae of Hawai'i: A survey of common species. University of Hawai'i Botanical Papers in Science 47: 68 pp.
- Adams RI, Amend AS, Taylor JW, Bruns TD (2013) A Unique Signal Distorts the Perception of Species Richness and Composition in High-Throughput Sequencing Surveys of Microbial Communities: a Case Study of Fungi in Indoor Dust. *Microbial Ecology* In Press
- Adamski, D. J., N. S. Dudley, C. W Morden and D. Borthakur D. 2012. Genetic differentiation and diversity of *Acacia koa* populations in the Hawaiian Islands. *Plant Species Biology*. 27: 181-190.
- Adamski, D., N. Dudley, Nicklos, C. Morden and D. Borthakur. 2013. Cross-amplification of non-native *Acacia* species in the Hawaiian Islands using microsatellite markers from *Acacia koa*. *Plant Biosystems* (in press).
- Adkins, E., S. Cordell, and D. R. Drake. 2011. The role of fire in the germination ecology of fountain grass (*Pennisetum setaceum*), an invasive African bunchgrass in Hawaii. *Pacific Science* 65: 17-26.
- Alexander, J. M., C. Kueffer, C. C. Daehler, P. J. Edwards, A. Pauchard, and T. Seipel. 2011. Assembly of nonnative floras along elevational gradients explained by directional ecological filtering. *Proceedings of the National Academy of Sciences* 108:656-661.
- Amend, A.S., K.A. Seifert, R. Samson, T.D. Bruns 2010 Indoor Fungal Assemblages are geographically patterned and more diverse in Temperate Zones than the Tropics. *Proceedings of the National Academy of Sciences* 107: 13748-13753
- Amend, A.S., Z. Fang, W. McClatchey 2010 Local perceptions of Matsutake mushroom management, in NW Yunnan China. *Biological Conservation* 143: 165-172

- Amend, A.S., M. Garbelotto, Z. Fang, S. Keeley 2010 Isolation by Landscape in Populations of the Prized Edible Mushroom *Tricholoma matsutake*. *Conservation Genetics* 11: 795-802
- Amend, A.S., K. A. Seifert, T.D. Bruns 2010 Quantifying Microbial Communities with 454 Pyrosequencing: Does Read Abundance Count? *Molecular Ecology* 19: 5555-5565
- Amend, A.S., D.J., Barshis, T.A.Oliver 2011 Coral-associated marine fungi form novel lineages and heterogeneous assemblages..*ISME Journal* 6: 1291-1301
- Amend, A.S., T.A. Oliver, L. A. Amaral-Zettler, A Boetius, J.A. Fuhrman, M.C. Horner-Devine, S.M. Huse, D.B.M. Mark Welch, A.C. Martiny, A. Ramette, L. Zinger, M.L. Sogin and J.H. Martiny 2012 Macroecological patterns of marine bacteria on a global scale. *Journal of Biogeography*
- Ansari, S., and C. C. Daehler. 2010. Life history variation in a temperate plant invader, *Verbascum thapsus* along a tropical elevational gradient in Hawai'i. *Biological Invasions* 12:4033–4047.
- Ansari, S. and C. C. Daehler. 2011. Fasciation in invading Common Mullein, *Verbascum thapsus* (Scrophulariaceae): Testing the roles of genetic and environmental factors. *Pacific Science* 65:451-463. doi: 10.2984/65.4.451
- Barton, K.E. (In press) Ontogenetic patterns in the mechanisms of tolerance. In press, *Annals of Botany*.
- Barton, K.E. and J. Koricheva 2010 The ontogeny of plant defense and herbivory: characterizing general patterns using meta-analysis. *American Naturalist* 175:481-493.
- Beard RA, Anderson DJ, Bufford JL, Tallman G. 2012. Heat reduces nitric oxide production required for auxin-mediated gene expression and fate determination in *Nicotiana glauca* guard cell protoplasts. *Plant physiology* 159: 1608–1623.
- Bengtsson-Palme, J., M. Ryberg, M. Hartmann, S. Branco, Z. Wang, A. Godhe, P. DeWit, M. Sanchez-Garcia, I. Ebersberger, F. Sousa, A.S. Amend, A. Jumpponen, M. Unterseher, E. Kristiansson, K. Abarenkov, Y.J.K. Bertrand, K. Sanli, K. M. Eriksson, U. Vik, V. Veldre and R. H. Nilsson (2013) Improved software detection and extraction of internal transcribed spacer (ITS)1 and ITS2 from ribosomal ITS sequences of fungi and other eukaryotes for analysis of environmental sequencing data. *Methods in Ecology and Evolution* In Press
- Birch, J., S. C. Keeley, and C. W. Morden. 2012. Molecular phylogeny and dating of the Asteliaceae (Asparagales): *Astelia* s.l. evolution provides insight into the Oligocene history of New Zealand. *Molecular Phylogenetics and Evolution* (In

press)

- Boege, K., K.E. Barton, and R. Dirzo 2010 Influence of tree ontogeny on plant-herbivore interactions. In *Size and Age-Related Changes in Tree Structure and Function, Tree Physiology 4*. Eds. F. C. Meinzer, B. Lachenbruch and T. E. Dawson. Springer, New York.
- Bufford JL, Daehler CC. 2011. Life History Strategies. In Simberloff D, Rejmánek M, Crumly CR, Rice G editors. *Encyclopedia of Introduced Invasive Species*. Berkeley (CA): University of California Press.
- Bufford JL, González E. 2012. Manejo del humedal Palo Verde y de las comunidades de aves asociadas a sus diferentes hábitats. *Ambientales* 43:7-16.
- Carlile, A.L., O'Kelly, C.J. and A.R. Sherwood. 2011. The green algal genus *Cloniophora* represents a novel lineage in the Ulvales: a proposal for *Cloniophoraceae* fam. nov. *Journal of Phycology* 47: 1379-1387. (cover article)
- Carlile, A.L. and A.R. Sherwood. 2013. Phylogenetic affinities and biogeography of the Hawaiian freshwater red algae (Rhodophyta). (in press, *Phycologia*).
- Castro, S. A., C. C. Daehler, L. Silva, C. W. Torres-Santana, J. A. Reyes-Betancort, R. Atkinson, P. Jaramillo, A. Guezou, and F. M. Jaksic. 2010. Floristic homogenization as a teleconnected trend in oceanic islands. *Diversity and Distributions* 16:902-310.
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- Chau, M. M.*, W. R. Reyes*, and T. A. Ranker. 2013. Ecological factors influencing growth of the endangered Hawaiian fern *Marsilea villosa* and implications for conservation management. *American Journal of Botany* 100: 1532–1543.
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- Chimera, C. G., and D. R. Drake. 2010. Patterns of seed dispersal and dispersal failure in a Hawaiian dry forest having only introduced birds. *Biotropica* 42: 493-502.
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- Cox, T.E., J. Philipoff, E. Baumgartner and C.M. Smith. 2013. Spatial and temporal variation in rocky intertidal communities along the Main Hawaiian Islands. *Pacific Science*. 67: 23-45.
- Crone, E., Menges, E., Ellis, M., Bell, T., Bierzychudek, P., Ehrlen, J., Kaye, T., Knight, T., Lesica, P., Morris, W., Oostermeijer, G., Quintana-Ascencio, P., Stanley, A., Ticktin, T., Valverde, T., and Williams, J. 2011. How do plant ecologists use matrix population models? *Ecology Letters* 14 :: 1-8.
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dimensionally model the plume across a coral reef on Maui, Hawai'i, USA. *Marine Pollution Bulletin*. 64:207-213.

- Drake, D. R., T. Bodey, J. C. Russell, D. R. Towns, M. Nogales, and L. Ruffino. 2011. Direct impacts of seabird predators on island biota other than seabirds. Pp. 91-132 in Mulder, C.P.H., W.B. Anderson, D.R. Towns and P.J. Bellingham (Eds). *Seabird Islands: Ecology, Invasion and Restoration*. Oxford University Press.
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- Dutra Elliott, D.*, L. Fortini and D. C. Duffy. In press. Trends in conservation research and management in Hawai'i over the past 20 years. *Pacific Conservation Biology*.
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