Literature Cited

- Barret SCH and Kohn JR (1991) Genetic and Evolutionary Consequences of Small Population Size in Plants: Implications for Conservation. In *Genetics and Conservation of Rare Plants* (eds Falk DA, Holsinger KE) pp. 3-30. Oxford University Press, NY.
- Brigham WT (1868) Notes on *Hesperomannia*, a new genus of Hawaiian Compositae.

 Memoirs of Boston Society of Natural History. 1: 527-528.
- Caraway V (1997) Hybridization, introgression and speciation among *Dubautia* species (Asteraceae: Madiinae). Master's Thesis, University of Hawaii, Manoa.
- Caraway V, Carr GD, Morden CW (2001) Assessment of Hybridization And
 Introgression In Lava-Colonizing Hawaiian *Dubautia* (Asteraceae: Madiinae)
 Using RAPD Markers. American Journal of Botany. **88**: 1688-1694.
- Carlquist S (1957) Systematic Anatomy of *Hesperomannia*. Pacific Science. 11: 207-215.
- Carlquist S (1980) Hawaii a Natural History. Published by Pacific Tropical Botanical Garden, Lawai, Kauai, Hawaii.
- Charlsworth D and Charlsworth B (1987) Inbreeding Depression and Its Evolutionary

 Consequences. Annual Review of Ecological Systematics. **18**: 237-268.
- Center for Plant Conservation (CPC) (1994) An Action Plan for Conserving Hawaiian Plant Diversity. Missouri Botanical Garden.
- Degener O (1932) Flora Hawaiiensis. Family 344. *Hesperomannia lydgatei*. Published privately, 2 pp.

- Degener O (1932) Flora Hawaiiensis. Family 344. *Hesperomannia arborescens*. Published privately, 2 pp.
- Degener O (1933) Flora Hawaiiensis. Family 344. *Hesperomannia sweezeyi*. Published privately, 2 pp.
- Degener O (1937) Flora Hawaiiensis. Family 344. *Hesperomannia bushiana*. Published privately, 2 pp.
- Degener O (1938) Flora Hawaiiensis. Family 344. *Hesperomannia oahuensis*. Published privately, 2 pp.
- Dolan RW, Yahr R, Menges ES and Halfhill MD (1999) Conservation implications of genetic variation in three rare species endemic to Florida Rosemary scrub.

 American Journal of Botany 86: 1556-1562.
- Doyle JJ, JL Doyle (1987) A rapid DNA isolation procedure for small quantities of fresh leaf tissue. Phytochemical Bulletin. **19**:11-15.
- Ellstrand EC, and Elam DR (1993) Population Genetic Consequences of Small

 Population Size: Implications for Plant Conservation. Annual Review of

 Ecological Systematics. **24**: 217-242.
- Frankham R (1995) Inbreeding and Extinction: A Threshold Effect. Conservation Biology. **9**: 792-799
- Frankham R (1997) Do island populations have less genetic variation than mainland populations? Heredity. **78**: 311-327.
- Frankham R (1998) Inbreeding and Extinction: Island Populations. Conservation Biology. **12**: 665-675.

- Frankham R, JD Ballou and DA Briscoe (2002) *Introduction to Conservation Genetics*.

 Cambridge University Press, NY.
- Friar EA, Robichaux RH (1996) Molecular genetic variation following a population crash in the endangered Mauna Kea silversword, *Argyroxiphium sandwicense* subsp. sandwicense (Asteraceae). Molecular Ecology. 5: 687-691.
- Friar EA, Robichaux RH, Mount DH (2000) Molecular genetic variation following a population crash in the endangered Mauna Kea silversword, *Argyroxiphium* sandwicense subsp. sandwicense (Asteraceae). Molecular Ecology. 9: 2027-2024.
- Fischer M, Matthies D. (1997) Mating structure and inbreeding and outbreeding depression in the rare plant *Gentianella germanica* (Gentianaceae). Amer. Jour. Bot. **84**: 1685-1692.
- Forbes CH (1909) Some New Hawaiian Plants. Occasional Papers of the Bernice P. Bishop Museum. **4**: 213-223.
- Gemmill CEC, Ranker ,TA, Ragone D, Pearlman SP, and Wood KR (1998) Conservation genetics of the endangered endemic Hawaiian genus *Brighamia* (Campanulaceae). American Journal of Botany **85**: 528-539.
- Glover BJ, Abbott RJ (1995) Low genetic diversity in the Scottish endemic *Primula* scotia Hook. New Phytologist. **129**: 147-153.
- Gray A (1865) Characters of some new plants of California and Nevada, chiefly from the collections of Professor William H. Brewer, botanist of the State Geological Survey of California, and of Dr. Charles L. Anderson, with revisions of certain genera or groups. Proceedings of the American Academy of Arts and Sciences. 6: 519-556.

- Gower JC, (1971) A general coefficient of similarity and some of its properties. Biometrics. **27**: 857-872.
- Hamrick JL, and MJ Godt (1989) Allozyme Diversity in Plant Species. In *Plant Population Genetics, Breeding, and Genetic Resources*, ed. AHD Brown, MT Clegg, AL Kahler, and BS Weir, pg 43-63. Sinauer, Sunderland, Mass.
- Hartl DL (2000) *A Primer of Population Genetics* 3rd edition. Sinauer Associates, Inc. Sunderland, Massachusetts.
- Hartl DL, Clark AG (1997) *Principles of Population Genetics* 3rd edition. Sinauer Associates, Inc. Sunderland, Massachusetts.
- Hedrick PW, and ST Kalinowski (2000) Inbreeding depression in conservation biology.

 Annual Review of Ecology and Systematics. **31**:139-162.
- Hillebrand W (1888) Flora of the Hawaiian Islands: a description of their phanerogams and vascular cryptogams. Carl Winter, Heidelberg, Germany: Williams & Norgate, London; B. Westermann & Co., New York, 673 pp.
- Holsinger KE, Gottlieb LD (1991) Conservation of Rare and Endangered Plants:

 Principles and Prospects. In *Genetics and Conservation of Rare Plants*, ed. D.A.

 Falk, K.E. Holsinger, pp. 195-208. New York: Oxford University Press. 283 pp.
- Huff, D. R., Peakall, R., and Smouse, P.E., (1993) RAPD variation within and among populations of outcrossing buffalograss (*Buchloë dactyloides*) (Nutt.) Engelm).Theoretical Applied Genetics. 86: 927-934.
- Husband BC, Schemske DW (1996) Evolution of the magnitude and timing of inbreeding depression in plants. Evolution. **50**: 54-70.

- Hutchinson DW, AR Templeton (1999) Correlation of Pairwise Genetic and Geographic Distance Measures: Inferring the Relative Influences of Gene Flow and Drift on the Distribution of Genetic Variability. Evolution **53**: 1898-1914.
- Kim H, Keeley SC, Vroom PS, Jansen RK (1998) Molecular evidence for an African origin of the Hawaiian endemic *Hesperomannia* (Asteraceae). Proceedings of the National Academy of Sciences. **95**: 15440-15445.
- Kimura M (1953) "Stepping-stone" model of population. Annual Report of the National Institute of Genetics **3:** 62-63.
- Kimura M, and GH Weiss (1964) The stepping stone model of population structure and the decrease of genetic correlation with distance. Genetics. **49**: 561-576.
- Kovach Computing Services 1987-1999. Mulit Variate Statistical Package, V. 3.0. Kovach Computing Services, Pentraeth, Wales.
- Kwon JA (1999) Genetic Variation in Kauila, Colubrina oppositifolia Brongn. Ex. Mann
 (Rhamnaceae) and Alphitonia ponderosa Hillebr. (Rhamnaceae), Rare and
 Endemic Hawaiian Dry Forest Trees. Masters Thesis, University of Hawaii,
 Honolulu.
- Kwon JA, Morden CW (2002) Population genetic structure of two rare tree species (*Colubrina oppositifolia* and *Alphitonia ponderosa*, Rhamnaceae) from Hawaiian dry and mesic forests using random amplified polymorphic DNA markers.

 Molecular Ecology. **11**: 991-1001.
- Lamboy WF (1994) Computing genetic similarity coefficients from RAPD data: The effects of PCR artifacts. PCR Methods and Applications. **4**: 31-37.

- Lammi A, Siikamaki P, Mustarjarvi K (1999) genetic diversity, population size, and fitness in central and peripheral populations of a rare plant *Lychnis viscaria*.

 Conservation Biology. **13**: 1069-1078.
- Lande R (1999) Extinction Rates from Anthropogenic, Ecological, and Genetic Factors.Pp. 1-23. In: *Genetics and the Extinction of Species*. L.F. Landweber and A.P.Dobson, Eds. Princeton University Press, Princeton, New Jersey.
- Les DH, Reinartz JA, Esselman EJ (1991) Genetic consequences of rarity in *Aster furcatus* (Asteraceae), a threatened, self-incompatible plant. Evolution. **45**: 1641-1650.
- Linhart YB, Grant MC (1996) Evolutionary significance of local genetic differentiation in plants. Annual Review of Ecology and Systematics. **27**: 237-277.
- Loeffler W (1997) Historical ethnobotany, modern processing techniques, and population biology of *olona*, *Touchardia latifolia* Gaud. (Urticaceae). Masters Thesis, University of Hawaii, Honolulu.
- Loeffler WF, Morden CW (2003) Genetic diversity and biogeography of the Hawaiian cordage plant, olona (*Touchardia latifolia*); Urticaceae), based on RAPD markers. Biochemical Systematics and Ecology. **31**: 1323-1333.
- Lynch M, Milligan BG (1994) Analysis of population genetic structure with RAPD markers. Molecular Ecology. **3**: 91-99.
- Matolweni L O, Balkwill K, McLellan T (2000) Genetic diversity and gene flow in the morphologically variable, rare endemics *Begonia dregei* and *Begonia homonyma* (Begoniaceae). Amer. Jour. Bot. **87**: 431-439.

- Mills LS, Smouse PE (1994) Demographic consequences of inbreeding in remnant populations. The American Naturalist. **144**: 412-431.
- Morden CW, Caraway V, Motley TJ (1996) Development of a DNA Library for Native Hawaiian Plants. Pacific Science **50**: 324-335.
- Morden CW, Loeffler W (1999) Fragmentation and genetic differentiation among subpopulations of the endangered Hawaiian mint *Haplostachys haplostachya* (Lamiaceae). Molecular Ecology. **8**: 617-625.
- Motley TJ (1996) Biosystematics and reproductive biology of the endemic Hawaiian genus *Labordia* Gaud. (Loganiaceae). PhD dissertation, University of Hawaii, Honolulu.
- Motley TJ and Carr GD (1998) Artificial hybridization in the Hawaiian endemic genus Labordia (Loganiaceae). American Journal of Botany. **85**: 654-660.
- Murashige T, Skoog F (1962) A revised medium for rapid growth and bioassays with tobacco tissue cultures. Physiologia Plantarum. **15**: 473-497.
- Kovach Computing Services 1987-99. Multi Variate Statistical Package, V. 3.0. Kovach Computing Services, Pentraeth, Wales.
- Nei M, Li WH (1979) Mathematical model for studying genetic variation in terms of restriction endonucleases. Proc. Natl. Acad. Sci. **76**:5269-5273.
- Newman D, Pilson D (1997) Increased probability of extinction due to decreased genetic effective population size: Experimental populations of *Clarkia pulchella*. Evolution. **51**: 354-362.

- Peakall, R., and Smouse, P. E. (2001) GenAlEx V5: <u>Genetic Analysis in Excel.</u>

 Population genetic software for teaching and research. Australian National
 University, Canberra, Australia. http://www.anu.edu.au/BoZo/GenAlEx/
- Pimm SL, Jones HL, Diamond J (1988) On the Risk of Extinction. The American Naturalist. **132**: 757-785.
- Randell RA, Morden CW (1999) Hawaiian plant DNA library II: endemic, indigenous, and introduced species. Pac. Sci. 53: 401-417.
- Reed DH, and R Frankham (2003) Correlation between Fitness and Genetic Diversity.

 Conservation Biology. 17: 230-237.
- Rieseberg LH (1996) Homology among RAPD fragments in interspecific comparisons.

 Molecular Ecology. 5:99-105.
- Rock JF (1913) Indigenous Trees of the Hawaiian Islands. Published privately, Honolulu, 512 pp.
- Royte E (1995) On the brink, Hawaii's vanishing species. National Geographic. **188**: 2-37.
- Sambrook J, Fritsch EF, Maniatis T (1989) *Molecular Cloning a Laboratory Manual*, 2nd edn. Cold Spring Harbor Laboratory Press, New York.
- St. John H (1978) Notes on *Hesperomannia* (Compositae) Hawaiian Plant Studies 80. Phytologia. **40**: 241-242.
- St. John H (1983) A new *Hesperomannia* (Compositae) from Maui Island: Hawaiian Plant Studies 116. Annals of the Missouri Botanical Garden. **70**: 198-200.

- Tansley SA, Brown CR (2000) RAPD variation in the rare and endangered

 Leucadendron elimense (Proteaceae): implications for their conservation.

 Biological Conservation. 95: 39-48.
- Tremblay RL, Ackerman JD (2001) Gene flow and effective population size in Lepanthes (Orchidaceae): a case for genetic drift. Biological Journal of the Linnaean Society. **72**: 47-62.
- USFWS (1994) Recovery Plan for the Wahiawa Plant Cluster. U.S. Fish and Wildlife Service, Portland, OR.
- USFWS (1995) Recovery Plan for the Waianae Plant Cluster. U.S. Fish and Wildlife Service, Portland, OR.
- USFWS (1996) Recovery Plan for the Ko`olau Mountain Plant Cluster. U.S. Fish and Wildlife Service, Portland, OR.
- USFWS (1998) Recovery Plan for the O`ahu Plants. U.S. Fish and Wildlife Service, Portland, OR.
- Wagner WL, Herbst DR, Sohmer SH (1990) *Manual of the Flowering Plants of Hawai`i*.

 University of Hawaii Press and Bishop Museum Press, Honolulu. 2 volumes.
- Wagner WL, Herbst DR (1999) Supplement to the Manual of Flowering Plants of Hawai`i. In *The Manual of Flowering Plants of Hawai*`i Revised Edition. Bishop Museum Press, Honolulu. 2 volumes.
- Wright S (1978) Evolution and the Genetics of Populations. Vol. 3. Experimental results and Evolutionary Deductions. University of Chicago Press, Chicago.

Weller SG, Sakai AK, Straub K (1996) Allozyme Diversity and Genetic Identity in *Schiedea* and *Alsinidendron* (Caryophyllaceae: Alsinoideae) in the Hawaiian Islands. Evolution **50**: 23-34.