

Appendix 15.1 – References for Tables 15.1 – 15.3

Studies cited in Table 15.1.....	1
Studies cited in Table 15.2.....	13
Studies cited in Table 15.3.....	17

Studies cited in Table 15.1

- Ackerman JD, Meléndez-Ackerman EJ and Salguero-Faria J (1997). Variation in pollinator abundance and selection on fragrance phenotypes in an epiphytic orchid. *American Journal of Botany*, **84**, 1383-1390.
- Aizen MA (1997). Influence of local floral density and sex ratio on pollen receipt and seed output: empirical and experimental results in dichogamous *Alstroemeria aurea* (Alstroemeriaceae). *Oecologia*, **111**, 404-412.
- Aizen MA (2001). Flower sex ratio, pollinator abundance, and the seasonal pollination dynamics of a protandrous plant. *Ecology*, **82**, 127-144.
- Aizen MA (2003). Influences of animal pollination and seed dispersal on winter flowering in a temperate mistletoe. *Ecology*, **84**, 2613-2627.
- Althoff DM, Segraves KA and Pellmyr O (2005). Community context of an obligate mutualism: pollinator and florivore effects on *Yucca filamentosa*. *Ecology*, **86**, 905-913.
- Allphin L, Wiens D and Harper KT (2002). The relative effects of resources and genetics on reproductive success in the rare Kachina daisy, *Erigeron kachinensis* (Asteraceae). *International Journal of Plant Sciences*, **163**, 599-612.
- Anderson GJ, Bernardello G, Stuessy TF and Crawford DJ (2001). Breeding system and pollination of selected plants endemic to Juan Fernandez Islands. *American Journal of Botany*, **88**, 220-233.
- Anderson GJ and Hill JD (2002). Many to flower, few to fruit: the reproductive biology of *Hamamelis virginiana* (Hamamelidaceae). *American Journal of Botany*, **89**, 67-78.
- Ando T, Nomura M, Tsukahara J, Watanabe H, Kokubun H, Tsukamoto T, Hashimoto G, Marchesi E and Kitching IJ (2001). Reproductive isolation in a native population of *Petunia sensu* Jussieu (Solanaceae). *Annals of Botany*, **88**, 403-413.
- Arizaga S, Ezcurra E, Peters E, de Arellano FR and Vega E (2000). Pollination ecology of *Agave macroacantha* (Agavaceae) in a Mexican tropical desert. I. Floral biology and pollination mechanisms. *American Journal of Botany*, **87**, 1004-1010.
- Armstrong JE (1997). Pollination by deceit in nutmeg (*Myristica insipida*, Myristicaceae): floral displays and beetle activity at male and female trees. *American Journal of Botany*, **84**, 1266-1274.
- Arroyo J, Barrett SCH, Hidalgo R and Cole WW (2002). Evolutionary maintenance of stigma-height dimorphism in *Narcissus papyraceus* (Amaryllidaceae). *American Journal of Botany*, **89**, 1242-1249.
- Ashman TL (2000). Pollinator selectivity and its implications for the evolution of dioecy and sexual dimorphism. *Ecology*, **81**, 2577-2591.
- Asikainen E and Mutikainen P (2005). Preferences of pollinators and herbivores in gynodioecious *Geranium sylvaticum*. *Annals of Botany*, **95**, 879-886.
- Bernardello G, Galetto L and Anderson GJ (2000). Floral nectary structure and nectar chemical composition of some species from Robinson Crusoe Island (Chile). *Canadian Journal of Botany*, **78**, 862-872.

- Bernardello G, Aguilar R and Anderson GJ (2004). The reproductive biology of *Sophora fernandeziana* (Leguminosae), a vulnerable endemic species from Isla Robinson Crusoe. *American Journal of Botany*, **91**, 198-206.
- Bernhardt P, Sage T, Weston P, Azuma H, Lam M, Thien LB and Bruhl J (2003). The pollination of *Trimenia moorei* (Trimeniaceae): floral volatiles, insect/wind pollen vectors and stigmatic self-incompatibility in a basal angiosperm. *Annals of Botany*, **92**, 445-458.
- Bhardwaj M and Eckert CG (2001). Functional analysis of synchronous dichogamy in flowering rush, *Butomus umbellatus* (Butomaceae). *American Journal of Botany*, **88**, 2204-2213.
- Bittencourt NS and Semir J (2004). Pollination biology and breeding system of *Zeyheria montana* (Bignoniaceae). *Plant Systematics and Evolution*, **247**, 241-254.
- Blionis GJ and Vokou D (2001). Pollination ecology of *Campanula* species on Mt. Olympos, Greece. *Ecography*, **24**, 287-297.
- Blionis GJ and Vokou D (2002). Structural and functional divergence of *Campanula spatulata* subspecies on Mt Olympos (Greece). *Plant Systematics and Evolution*, **232**, 89-105.
- Borba EL and Semir J (2001). Pollinator specificity and convergence in fly-pollinated *Pleurothallis* (Orchidaceae) species: a multiple population approach. *Annals of Botany*, **88**, 75-88.
- Borges RM, Gowda V and Zacharias M (2003). Butterfly pollination and high-contrast visual signals in a low-density distylous plant. *Oecologia*, **136**, 571-573.
- Bosch J, Retana J and Cerdá X (1997). Flowering phenology, floral traits and pollinator composition in a herbaceous Mediterranean plant community. *Oecologia*, **109**, 583-591.
- Bosch M and Waser NM (1999). Effects of local density on pollination and reproduction in *Delphinium nuttallianum* and *Aconitum columbianum* (Ranunculaceae). *American Journal of Botany*, **86**, 871-879.
- Boyd EA (2004). Breeding system of *Macromeria viridiflora* (Boraginaceae) and geographic variation in pollinator assemblages. *American Journal of Botany*, **91**, 1809-1813.
- Canela MBF and Sazima M (2003). *Aechmea pectinata*: a hummingbird-dependent bromeliad with inconspicuous flowers from the rainforest in south-eastern Brazil. *Annals of Botany*, **92**, 731-737.
- Caruso CM (2000). Competition for pollination influences selection on floral traits of *Ipomopsis aggregata*. *Evolution*, **54**, 1546-1557.
- Casas A, Valiente-Banuet A, Rojas-Martínez A and Dávila P (1999). Reproductive biology and the process of domestication of the columnar cactus *Stenocereus stellatus* in central Mexico. *American Journal of Botany*, **86**, 534-542.
- Case A and Barrett SCH (2004). Floral biology of gender monomorphism and dimorphism in *Wurmbea dioica* (Colchicaceae) in Western Australia. *International Journal of Plant Sciences*, **165**, 289-301.
- Clark-Tapia R and Molina-Freaner F (2004). Reproductive ecology of the rare clonal cactus *Stenocereus eruca* in the Sonoran desert. *Plant Systematics and Evolution*, **247**, 155-164.
- Chung MY and Chung MG (2005). Pollination biology and breeding systems in the terrestrial orchid *Bletilla striata*. *Plant Systematics and Evolution*, **252**, 1-9.
- de Castro CC and Araujo AC (2004). Distyly and sequential pollinators of *Psychotria nuda* (Rubiaceae) in the Atlantic rain forest, Brazil. *Plant Systematics and Evolution*, **244**, 131-139.

- De Figueiredo RA and Sazima M (2000). Pollination biology of Piperaceae species in southeastern Brazil. *Annals of Botany*, **85**, 455-460.
- Despres L and Jaeger N (1999). Evolution of oviposition strategies and speciation in the globeflower flies *Chiastocheta* spp. (Anthomyiidae). *Journal of Evolutionary Biology*, **12**, 822-831.
- Devy MS and Davidar P (2003). Pollination systems of trees in Kakachi, a mid-elevation wet evergreen forest in Western Ghats, India. *American Journal of Botany*, **90**, 650-657.
- Dieringer G, Cabrera L, Lara M, Loya L and Reyes-Castillo P (1999). Beetle pollination and floral thermogenicity in *Magnolia tamaulipana* (Magnoliaceae). *International Journal of Plant Sciences*, **160**, 64-71.
- Dieringer G and Cabrera L (2002). The interaction between pollinator size and the bristle staminode of *Penstemon digitalis* (Scrophulariaceae). *American Journal of Botany*, **89**, 991-997.
- Dohzono K, Suzuki K and Murata J (2004). Temporal changes in calyx tube length of *Clematis stans* (Ranunculaceae): a strategy for pollination by two bumble bee species with different proboscis lengths. *American Journal of Botany*, **91**, 2051-2059.
- Dupont YL and Skov C (2004). Influence of geographical distribution and floral traits on species richness of bees (Hymenoptera: Apoidea) visiting *Echium species* (Boraginaceae) of the Canary Islands. *International Journal of Plant Sciences*, **165**, 377-386.
- Eckert CG and Mavraganis K (1996). Evolutionary consequences of extensive morph loss in tristylous *Decodon verticillatus* (Lythraceae): a shift from tristily to distily? *American Journal of Botany*, **83**, 1024-1032.
- Eckert CG (2002). Effect of geographical variation in pollinator fauna on the mating system of *Decodon verticillatus* (Lythraceae). *International Journal of Plant Sciences*, **163**, 123-132.
- Ehlers BK, Olesen JM and Ågren J (2002). Floral morphology and reproductive success in the orchid *Epipactis helleborine*: regional and local across-habitat variation. *Plant Systematics and Evolution*, **236**, 19-32.
- Elle E and Carney R (2003). Reproductive assurance varies with flower size in *Collinsia parviflora* (Scrophulariaceae). *American Journal of Botany*, **90**, 888-896.
- Engel EC and Irwin RE (2003). Linking pollinator visitation rate and pollen receipt. *American Journal of Botany*, **90**, 1612-1618.
- Faivre AE and McDade LA (2001). Population-level variation in the expression of heterostyly in three species of Rubiaceae: does reciprocal placement of anthers and stigmas characterize heterostyly? *American Journal of Botany*, **88**, 841-853.
- Fausto JA, Eckhart VM and Geber MA (2001). Reproductive assurance and the evolutionary ecology of self-pollination in *Clarkia xantiana* (Onagraceae). *American Journal of Botany*, **88**, 1794-1800.
- Fleming TH and Holland JN (1998). The evolution of obligate pollination mutualisms: senita cactus and senita moth. *Oecologia*, **114**, 368-375.
- Galetto L and Bernardello G (2004). Floral nectaries, nectar production dynamics and chemical composition in six *Ipomoea species* (Convolvulaceae) in relation to pollinators. *Annals of Botany*, **94**, 269-280.
- Galloni M and Cristofolini G (2003). Floral rewards and pollination in Cytiseae (Fabaceae). *Plant Systematics and Evolution*, **238**, 127-137.

- Galloway LF, Cirigliano T and Gremski K (2002). The contribution of display size and dichogamy to potential geitonogamy in *Campanula americana*. *International Journal of Plant Sciences*, **163**, 133-139.
- Gao JY, Zhang L, Deng XB, Ren PY, Kong JJ and Li QJ (2004). The floral biology of *Curcumorpha longiflora* (Zingiberaceae): a ginger with two-day flowers. *American Journal of Botany*, **91**, 289-293.
- Gaudeul M and Till-Bottraud I (2004). Reproductive ecology of the endangered alpine species *Eryngium alpinum* L. (Apiaceae): phenology, gene dispersal and reproductive success. *Annals of Botany*, **93**, 711-721.
- Gibbs PE and Talavera S (2001). Breeding system studies with three species of *Anagallis* (Primulaceae): self-incompatibility and reduced female fertility in *A. monelli* L. *Annals of Botany*, **88**, 139-144.
- Gibernau M, Barabé D, Cerdan P and Dejean A (1999). Beetle pollination of *Philodendron solimoense* (Araceae) in French Guiana. *International Journal of Plant Sciences*, **160**, 1135-1143.
- Goldblatt P, Bernhardt P, Vogan P and Manning JC (2004). Pollination by fungus gnats (Diptera: Mycetophilidae) and self-recognition sites in *Tolmiea menziesii* (Saxifragaceae). *Plant Systematics and Evolution*, **244**, 55-67.
- Gómez JM and Zamora R (1999). Generalization vs. specialization in the pollination system of *Hormathophylla spinosa* (Cruciferae). *Ecology*, **80**, 796-805.
- Gómez JM (2000). Effectiveness of ants as pollinators of *Lobularia maritima*: effects on main sequential fitness components of the host plant. *Oecologia*, **122**, 90-97.
- Gómez JM (2002). Self-pollination in *Euphrasia willkommii* Freyn (Scrophulariaceae), an endemic species from the alpine of the Sierra Nevada (Spain). *Plant Systematics and Evolution*, **232**, 63-71.
- Goulson D, Stout JC, Hawson SA and Allen JA (1998). Floral display size in comfrey, *Symphytum officinale* L. (Boraginaceae): relationships with visitation by three bumblebee species and subsequent seed set. *Oecologia*, **113**, 502-508.
- Gugerli F (1998). Effect of elevation on sexual reproduction in alpine populations of *Saxifraga oppositifolia* (Saxifragaceae). *Oecologia*, **114**, 60-66.
- Hampe A (2005). Fecundity limits in *Frangula alnus* (Rhamnaceae) relict populations at the species' southern range margin. *Oecologia*, **143**, 377-386.
- Herlihy CR and Eckert CG (2005). Evolution of self-fertilization at geographical range margins? A comparison of demographic, floral, and mating system variables in central vs. peripheral populations of *Aquilegia canadensis* (Ranunculaceae). *American Journal of Botany*, **92**, 744-751.
- Herrera CM (1995). Microclimate and individual variation in pollinators: flowering plants are more than their flowers. *Ecology*, **76**, 1516-1524.
- Herrera CM, Sánchez-Lafuente AM, Medrano M, Guitián J, Cerdá X and Rey P (2001). Geographical variation in autonomous self-pollination levels unrelated to pollinator service in *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany*, **88**, 1025-1032.
- Herrera CM, Cerdá X, García MB, Guitián J, Medrano M, Rey PJ and Sánchez-Lafuente AM (2002). Floral integration, phenotypic covariance structure and pollinator variation in bumblebee-pollinated *Helleborus foetidus*. *Journal of Evolutionary Biology*, **15**, 108-121.

- Herrera CM (2005). Plant generalization on pollinators: species property or local phenomenon? *American Journal of Botany*, **92**, 13-20.
- Herrera J (2005). Flower size variation in *Rosmarinus officinalis*: individuals, populations and habitats. *Annals of Botany*, **95**, 431-437.
- Holland JN and Fleming TH (1999). Mutualistic interactions between *Upiga virescens* (Pyralidae), a pollinating seed-consumer, and *Lophocereus schottii* (Cactaceae). *Ecology*, **80**, 2074-2084.
- Holland JN, Bronstein JL and DeAngelis DL (2004). Testing hypotheses for excess flower production and low fruit-to-flower ratios in a pollinating seed-consuming mutualism. *Oikos*, **105**, 633-640.
- Huber FK, Kaiser R, Sauter W and Schiestl FP (2005). Floral scent emission and pollinator attraction in two species of *Gymnadenia* (Orchidaceae). *Oecologia*, **142**, 564-575.
- Ibarra-Cerdeña CN, Iñiguez-Dávalos LI and Sánchez-Cordero V (2005). Pollination ecology of *Stenocereus queretaroensis* (Cactaceae), a chiropterophilous columnar cactus, in a tropical dry forest of Mexico. *American Journal of Botany*, **92**, 503-509.
- Irwin RE (2000). Morphological variation and female reproductive success in two sympatric *Trillium* species: evidence for phenotypic selection in *Trillium erectum* and *Trillium grandiflorum* (Liliaceae). *American Journal of Botany*, **87**, 205-214.
- Iwaizumi MG and Sakai S (2004). Variation in flower biomass among nearby populations of *Impatiens textori* (Balsaminaceae): effects of population plant densities. *Canadian Journal of Botany*, **82**, 563-572.
- Johnson SD and Midgley JJ (1997). Fly pollination of *Gorteria diffusa* (Asteraceae), and a possible mimetic function for dark spots on the capitulum. *American Journal of Botany*, **84**, 429-436.
- Johnson SD and Steiner KE (1997). Long-tongued fly pollination and evolution of floral spur length in the *Disa draconis* complex (Orchidaceae). *Evolution*, **51**, 45-53.
- Johnson SD, Pauw A and Midgley J (2001). Rodent pollination in the African lily *Massonia depressa* (Hyacinthaceae). *American Journal of Botany*, **88**, 1768-1773.
- Johnson SD and Brown M (2004). Transfer of pollinaria on birds' feet: a new pollination system in orchids. *Plant Systematics and Evolution*, **244**, 181-188.
- Johnson SD (2005). Specialized pollination by spider-hunting wasps in the African orchid *Disa sankeyi*. *Plant Systematics and Evolution*, **251**, 153-160.
- Jones CE and Cruzan MB (1999). Floral morphological changes and reproductive success in deer weed (*Lotus scoparius*, Fabaceae). *American Journal of Botany*, **86**, 273-277.
- Kalisz S and Vogler DW (2003). Benefits of autonomous selfing under unpredictable pollinator environments. *Ecology*, **84**, 2928-2942.
- Kasagi T and Kudo G (2003). Variations in bumble bee preference and pollen limitation among neighboring populations: comparisons between *Phyllodoce caerulea* and *Phyllodoce aleutica* (Ericaceae) along snowmelt gradients. *American Journal of Botany*, **90**, 1321-1327.
- Kato M (1996). Plant-pollinator interactions in the understory of a lowland mixed dipterocarp forest in Sarawak. *American Journal of Botany*, **83**, 732-743.
- Kawakita A and Kato M (2002). Floral biology and unique pollination system of root holoparasites *Balanophora kuroiwai*, and *B. tobiracola* (Balanophoraceae). *American Journal of Botany*, **89**, 1164-1170.

- Kelt DA (1997). Floral color change in *Errazurizia megacarpa*, a Sonoran Desert shrub. *Canadian Journal of Botany*, **75**, 955-959.
- Klinkhamer PGL and van der Lugt PP (2004). Pollinator service only depends on nectar production rates in sparse populations. *Oecologia*, **140**, 491-494.
- Knudsen JT (2002). Variation in floral scent composition within and between populations of *Geonoma macrostachys* (Arecaceae) in the western Amazon. *American Journal of Botany*, **89**, 1772-1778.
- Lange RS, Scobell SA and Scott PE (2000). Hummingbird-syndrome traits, breeding system, and pollinator effectiveness in two syntopic *Penstemon* species. *International Journal of Plant Sciences*, **161**, 253-263.
- Larson BMH and Barrett SCH (1999). The pollination ecology of buzz-pollinated *Rhexia virginica* (Melastomataceae). *American Journal of Botany*, **86**, 502-511.
- Lavergne S, Debussche M and Thompson JD (2005). Limitations on reproductive success in endemic *Aquilegia viscosa* (Ranunculaceae) relative to its widespread congener *Aquilegia vulgaris*: the interplay of herbivory and pollination. *Oecologia*, **142**, 212-220.
- Le Corff J, Ågren J and Schemske DW (1998). Floral display, pollinator discrimination, and female reproductive success in two monoecious *Begonia* species. *Ecology*, **79**, 1610-1619.
- Leege LM and Wolfe LM (2002). Do floral herbivores respond to variation in flower characteristics in *Gelsemium sempervirens* (Loganiaceae), a distylous vine? *American Journal of Botany*, **89**, 1270-1274.
- Lehnebach CA and Robertson AW (2004). Pollination ecology of four epiphytic orchids of New Zealand. *Annals of Botany*, **93**, 773-781.
- Leimu R and Syrjanen K (2002). Effects of population size, seed predation and plant size on male and female reproductive success in *Vincetoxicum hirundinaria* (Asclepiadaceae). *Oikos*, **98**, 229-238.
- Leimu R (2004). Variation in the mating system of *Vincetoxicum hirundinaria* (Asclepiadaceae) in peripheral island populations. *Annals of Botany*, **93**, 107-113.
- Lin S and Bernardello G (1999). Flower structure and reproductive biology in *Aspidosperma quebracho-blanco* (Apocynaceae), a tree pollinated by deceit. *International Journal of Plant Sciences*, **160**, 869-878.
- Lipow SR, Bernhardt P and Vance N (2002). Comparative rates of pollination and fruit set in widely separated populations of a rare orchid (*Cypripedium fasciculatum*). *International Journal of Plant Sciences*, **163**, 775-782.
- Lippok B, Gardine AA, Williamson PS and Renner SS (2000). Pollination by flies, bees, and beetles of *Nuphar ozarkana* and *N. advena* (Nymphaeaceae). *American Journal of Botany*, **87**, 898-902.
- Liu AZ, Kress WJ, Wang H and Li DZ (2002). Insect pollination of *Musella* (Musaceae), a monotypic genus endemic to Yunnan, China. *Plant Systematics and Evolution*, **235**, 135-146.
- Liu H and Koptur S (2003). Breeding system and pollination of a narrowly endemic herb of the Lower Florida Keys: impacts of the urban-wildland interface. *American Journal of Botany*, **90**, 1180-1187.
- Lobo JA, Quesada M, Stoner KE, Fuchs EJ, Herrerías-Diego Y, Rojas J and Saborío G (2003). Factors affecting phenological patterns of bombacaceous trees in seasonal forests in Costa Rica and Mexico. *American Journal of Botany*, **90**, 1054-1063.

- Lobo JA, Quesada M and Stoner KE (2005). Effects of pollination by bats on the mating system of *Ceiba pentandra* (Bombacaceae) populations in two tropical life zones in Costa Rica. *American Journal of Botany*, **92**, 370-376.
- Luo YB and Li ZY (1999). Pollination ecology of *Chloranthus serratus* (Thunb.) Roem. et Schult. and *C. fortunei* (A. Gray) Solms-Laub. (Chloranthaceae). *Annals of Botany*, **83**, 489-499.
- Luyt R and Johnson SD (2001). Hawkmoth pollination of the African epiphytic orchid *Mystacidium venosum*, with special reference to flower and pollen longevity. *Plant Systematics and Evolution*, **228**, 49-62.
- Maad J and Alexandersson R (2004). Variable selection in *Platanthera bifolia* (Orchidaceae): phenotypic selection differed between sex functions in a drought year. *Journal of Evolutionary Biology*, **17**, 642-650.
- Maad J and Reinhammar LG (2004). Incidence of geitonogamy differs between two populations in the hawkmoth-pollinated *Platanthera bifolia* (Orchidaceae). *Canadian Journal of Botany*, **82**, 1586-1593.
- Machado IC and Lopes AV (2000). *Souroubea guianensis* Aubl.: quest for its legitimate pollinator and the first record of tapetal oil in the Marcgraviaceae. *Annals of Botany*, **85**, 705-711.
- Machado IC and Lopes AV (2004). Floral traits and pollination systems in the Caatinga, a Brazilian tropical dry forest. *Annals of Botany*, **94**, 365-376.
- Machado IC and Vogel S (2004). The North-east-Brazilian liana, *Adenocalymna dichilum* (Bignoniaceae) pollinated by bats. *Annals of Botany*, **93**, 609-613.
- Manning JC and Goldblatt P (2005). Radiation of pollination systems in the Cape genus *Tritoniopsis* (Iridaceae: Crocoideae) and the development of bimodal pollination strategies. *International Journal of Plant Sciences*, **166**, 459-474.
- Massinga PH, Johnson SD and Harder LD (2005). Heteromorphic incompatibility and efficiency of pollination in two distylous *Pentanisia* species (Rubiaceae). *Annals of Botany*, **95**, 389-399.
- Medan D and Ponessa G (2003). Movement-assisted dichogamy in *Atamisquea emarginata* (Capparaceae). *Plant Systematics and Evolution*, **236**, 195-205.
- Medel R, Botto-Mahan C and Kalin-Arroyo M (2003). Pollinator-mediated selection on the nectar guide phenotype in the Andean monkey flower, *Mimulus luteus*. *Ecology*, **84**, 1721-1732.
- Miyake T and Inoue K (2003). Character displacement in style length between pollinator sharing *Clerodendrum trichotomum* and *C. izuinsulare* (Verbenaceae). *Plant Systematics and Evolution*, **243**, 31-38.
- Miyake T and Yafuso M (2003). Floral scents affect reproductive success in fly-pollinated *Alocasia odora* (Araceae). *American Journal of Botany*, **90**, 370-376.
- Moeller DA (2004). Facilitative interactions among plants via shared pollinators. *Ecology*, **85**, 3289-3301.
- Moeller DA (2005). Pollinator community structure and sources of spatial variation in plant-pollinator interactions in *Clarkia xantiana* ssp *xantiana*. *Oecologia*, **142**, 28-37.
- Molina-Freaner F and Eguiarte LE (2003). The pollination biology of two paniculate agaves (Agavaceae) from northwestern Mexico: contrasting roles of bats as pollinators. *American Journal of Botany*, **90**, 1016-1024.

- Moog U, Fiala B, Federle W and Maschwitz U (2002). Thrips pollination of the dioecious ant plant *Macaranga hullettii* (Euphorbiaceae) in Southeast Asia. *American Journal of Botany*, **89**, 50-59.
- Morinaga SI, Tsuji K and Sakai S (2003). Consequences of differences in flowering date on seed production in *Heloniopsis orientalis* (Liliaceae). *American Journal of Botany*, **90**, 1153-1158.
- Muchhala N (2003). Exploring the boundary between pollination syndromes: bats and hummingbirds as pollinators of *Burmeistera cyclostigmata* and *B. tenuiflora* (Campanulaceae). *Oecologia*, **134**, 373-380.
- Nagamitsu T and Inoue T (1997). Cockroach pollination and breeding system of *Uvaria elmeri* (Annonaceae) in a lowland mixed-dipterocarp forest in Sarawak. *American Journal of Botany*, **84**, 208-213.
- Nassar JM, Ramirez N and Linares O (1997). Comparative pollination biology of Venezuelan columnar cacti and the role of nectar-feeding bats in their sexual reproduction. *American Journal of Botany*, **84**, 918-927.
- Nassar JM and Ramírez N (2004). Reproductive biology of the melon cactus, *Melocactus curvispinus* (Cactaceae). *Plant Systematics and Evolution*, **248**, 31-44.
- Noguchi J and Hong DY (2004). Multiple origins of the Japanese nocturnal *Hemerocallis citrina* var. *vespertina* (Asparagales: Hemerocallidaceae): evidence from noncoding chloroplast DNA sequences and morphology. *International Journal of Plant Sciences*, **165**, 219-230.
- Olsen KM (1997). Pollination effectiveness and pollinator importance in a population of *Heterotheca subaxillaris* (Asteraceae). *Oecologia*, **109**, 114-121.
- Ollerton J, Johnson SD, Cranmer L and Kellie S (2003). The pollination ecology of an assemblage of grassland asclepiads in South Africa. *Annals of Botany*, **92**, 807-834.
- Orellana MR, Rovira AM, Blanche C and Bosch M (2005). Pollination and reproductive success in the gynodioecious endemic *Thymus loscosii* (Lamiaceae). *Canadian Journal of Botany*, **83**, 183-193.
- Ornelas JF, Jiménez L, González C and Hernández A (2004). Reproductive ecology of distylous *Palicourea padifolia* (Rubiaceae) in a tropical montane cloud forest. I. Hummingbirds' effectiveness as pollen vectors. *American Journal of Botany*, **91**, 1052-1060.
- Pailler T, Warren B and Labat JN (2002). Reproductive biology of *Aloe mayottensis* (Liliaceae), a species endemic to the island of Mayotte (Indian Ocean). *Canadian Journal of Botany*, **80**, 340-348.
- Parker IM and Haubensak KA (2002). Comparative pollinator limitation of two non-native shrubs: do mutualisms influence invasions? *Oecologia*, **130**, 250-258.
- Parra-Tabla V and Vargas CF (2004). Phenology and phenotypic natural selection on the flowering time of a deceit-pollinated tropical orchid, *Myrmecophila christinae*. *Annals of Botany*, **94**, 243-250.
- Patel A and Hossaert-McKey M (2000). Components of reproductive success in two dioecious fig species, *Ficus exasperata* and *Ficus hispida*. *Ecology*, **81**, 2850-2866.
- Patt JM, French JC, Schal C, Lech J and Hartman TG (1995). The pollination biology of Tuckahoe, *Peltandra virginica* (Araceae). *American Journal of Botany*, **82**, 1230-1240.
- Pérez-Bañón C, Juan A, Petanidou T, Marcos-García MA and Crespo MB (2003). The reproductive ecology of *Medicago citrina* (Font Quer) Greuter (Leguminosae): a bee pollinated plant in Mediterranean islands where bees are absent. *Plant Systematics and Evolution*, **241**, 29-46.

- Porras R and Alvarez JMM (1999). Breeding system in the cleistogamous species *Centaurea melitensis* (Asteraceae). *Canadian Journal of Botany*, **77**, 1632-1640.
- Potts SG, Dafni A and Ne'eman G (2001). Pollination of a core flowering shrub species in Mediterranean phrygana: variation in pollinator diversity, abundance and effectiveness in response to fire. *Oikos*, **92**, 71-80.
- Raine NE, Willmer P and Stone GN (2002). Spatial structuring and floral avoidance behavior prevent ant-pollinator conflict in a Mexican ant-acacia. *Ecology*, **83**, 3086-3096.
- Rodríguez-Pérez J (2005). Breeding system, flower visitors and seedling survival of two endangered species of *Helianthemum* (Cistaceae). *Annals of Botany*, **95**, 1229-1236.
- Rodríguez-Riaño T, Ortega-Olivencia A and Devesa JA (1999). Reproductive biology in two Genisteae (Papilionoideae) endemic of the western Mediterranean region: *Cytisus striatus* and *Retama sphaerocarpa*. *Canadian Journal of Botany*, **77**, 809-820.
- Sakai S and Inoue T (1999). A new pollination system: dung-beetle pollination discovered in *Orchidantha inouei* (Lowiaceae, Zingiberales) in Sarawak, Malaysia. *American Journal of Botany*, **86**, 56-61.
- Sakai S, Kato M and Inoue T (1999). Three pollination guilds and variation in floral characteristics of Bornean gingers (Zingiberaceae and Costaceae). *American Journal of Botany*, **86**, 646-658.
- Sakai S, Momose K, Yumoto T, Kato M and Inoue T (1999). Beetle pollination of *Shorea parvifolia* (section *Mutica*, Dipterocarpaceae) in a general flowering period in Sarawak, Malaysia. *American Journal of Botany*, **86**, 62-69.
- Sakai S (2001). Thrips pollination of androdioecious *Castilla elastica* (Moraceae) in a seasonal tropical forest. *American Journal of Botany*, **88**, 1527-1534.
- Sánchez-Lafuente AM (2002). Floral variation in the generalist perennial herb *Paeonia broteroi* (Paeoniaceae): differences between regions with different pollinators and herbivores. *American Journal of Botany*, **89**, 1260-1269.
- Sandvik SM and Totland O (2003). Quantitative importance of staminodes for female reproductive success in *Parnassia palustris* under contrasting environmental conditions. *Canadian Journal of Botany*, **81**, 49-56.
- Sanmartín-Gajardo I and Sazima M (2005). Chiropterophily in Sinningieae (Gesneriaceae): *Sinningia brasiliensis* and *Paliavana prasinata* are bat-pollinated, but *P. sericiflora* is not. Not yet? *Annals of Botany*, **95**, 1097-1103.
- Santandreu M and Lloret F (1999). Effect of flowering phenology and habitat on pollen limitation in *Erica multiflora*. *Canadian Journal of Botany*, **77**, 734-743.
- Sargent RD (2003). Seasonal changes in pollen-packaging schedules in the protandrous plant *Chamerion angustifolium*. *Oecologia*, **135**, 221-226.
- Sato H (2002). The role of autonomous self-pollination in floral longevity in varieties of *Impatiens hypophylla* (Balsaminaceae). *American Journal of Botany*, **89**, 263-269.
- Sazima M, Buzato S and Sazima I (1999). Bat-pollinated flower assemblages and bat visitors at two Atlantic forest sites in Brazil. *Annals of Botany*, **83**, 705-712.
- Sazima M, Vogel S, do Prado AL, de Oliveira DM, Franz G and Sazima I (2001). The sweet jelly of *Combretum lanceolatum* flowers (Combretaceae): a cornucopia resource for bird pollinators in the Pantanal, western Brazil. *Plant Systematics and Evolution*, **227**, 195-208.

- Sazima M, Buzato S and Sazima I (2003). *Dyssochroma vitidiflorum* (Solanaceae): a reproductively bat-dependent epiphyte from the Atlantic rainforest in Brazil. *Annals of Botany*, **92**, 725-730.
- Schemske DW and Bierzychudek P (2001). Evolution of flower color in the desert annual *Linanthus parryae*: Wright revisited. *Evolution*, **55**, 1269-1282.
- Schmidt-Adam G, Young AG and Murray BG (2000). Low outcrossing rates and shift in pollinators in New Zealand pohutukawa (*Metrosideros excelsa*; Myrtaceae). *American Journal of Botany*, **87**, 1265-1271.
- Schueller SK (2004). Self-pollination in island and mainland populations of the introduced hummingbird-pollinated plant, *Nicotiana glauca* (Solanaceae). *American Journal of Botany*, **91**, 672-681.
- Silva-Montellano A and Eguiarte LE (2003). Geographic patterns in the reproductive ecology of *Agave lechuguilla* (Agavaceae) in the Chihuahuan desert. I. Floral characteristics, visitors, and fecundity. *American Journal of Botany*, **90**, 377-387.
- Singer RB and Sazima M (2001). Flower morphology and pollination mechanism in three sympatric goodyerinae orchids from southeastern Brazil. *Annals of Botany*, **88**, 989-997.
- Singer RB and Sazima M (2001). The pollination mechanism of three sympatric *Prescottia* (Orchidaceae: Prescotttinae) species in southeastern Brazil. *Annals of Botany*, **88**, 999-1005.
- Singer RB (2002). The pollination mechanism in *Trigonidium obtusum* Lindl (Orchidaceae: Maxillariinae): sexual mimicry and trap-flowers. *Annals of Botany*, **89**, 157-163.
- Slauson LA (2000). Pollination biology of two chiropterophilous agaves in Arizona. *American Journal of Botany*, **87**, 825-836.
- Steets JA and Ashman TL (2004). Herbivory alters the expression of a mixed-mating system. *American Journal of Botany*, **91**, 1046-1051.
- Steiner KE (1998). The evolution of beetle pollination in a South African orchid. *American Journal of Botany*, **85**, 1180-1193.
- Steiner KE and Whitehead VB (2002). Oil secretion and the pollination of *Colpias mollis* (Scrophulariaceae). *Plant Systematics and Evolution*, **235**, 53-66.
- Stone GN, Willmer P and Rowe JA (1998). Partitioning of pollinators during flowering in an African *Acacia* community. *Ecology*, **79**, 2808-2827.
- Sun SG, Guo YH, Gituru RW and Huang SQ (2005). Corolla wilting facilitates delayed autonomous self-pollination in *Pedicularis dunniana* (Orobanchaceae). *Plant Systematics and Evolution*, **251**, 229-237.
- Sunnichan VG, Ram HYM and Shivanna KR (2004). Floral sexuality and breeding system in gum karaya tree, *Sterculia urens*. *Plant Systematics and Evolution*, **244**, 201-218.
- Takano A, Gisil J, Yusoff M and Tachi T (2005). Floral and pollinator behaviour of flexistylous Bornean ginger, *Alpinia nieuwenhuizii* (Zingiberaceae). *Plant Systematics and Evolution*, **252**, 167-173.
- Tandon R, Shivanna KR and Ram HYM (2003). Reproductive biology of *Butea monosperma* (Fabaceae). *Annals of Botany*, **92**, 715-723.
- Tangmitcharoen S and Owens JN (1997). Floral biology, pollination, pistil receptivity, and pollen tube growth of teak (*Tectona grandis* Linn f). *Annals of Botany*, **79**, 227-241.
- Thompson FL, Hermanutz LA and Innes DJ (1998). The reproductive ecology of island populations of distylous *Menyanthes trifoliata* (Menyanthaceae). *Canadian Journal of Botany*, **76**, 818-828.

- Thompson JD (2001). How do visitation patterns vary among pollinators in relation to floral display and floral design in a generalist pollination system? *Oecologia*, **126**, 386-394.
- Tian JP, Liu KM and Hu GW (2004). Pollination ecology and pollination system of *Impatiens reptans* (Balsaminaceae) endemic to China. *Annals of Botany*, **93**, 167-175.
- Torres E, Iriondo JM and Pérez C (2002). Vulnerability and determinants of reproductive success in the narrow endemic *Antirrhinum microphyllum* (Scrophulariaceae). *American Journal of Botany*, **89**, 1171-1179.
- Totland O (2001). Environment-dependent pollen limitation and selection on floral traits in an alpine species. *Ecology*, **82**, 2233-2244.
- Travers SE, Temeles EJ and Pan I (2003). The relationship between nectar spur curvature in jewelweed (*Impatiens capensis*) and pollen removal by hummingbird pollinators. *Canadian Journal of Botany*, **81**, 164-170.
- Traveset A and Sáez E (1997). Pollination of *Euphorbia dendroides* by lizards and insects: spatio-temporal variation in patterns of flower visitation. *Oecologia*, **111**, 241-248.
- Utelli AB and Roy BA (2000). Pollinator abundance and behavior on *Aconitum lycoctonum* (Ranunculaceae): an analysis of the quantity and quality components of pollination. *Oikos*, **89**, 461-470.
- Valiente-Banuet A, Rojas-Martínez A, Arizmendi MD and Dávila P (1997). Pollination biology of two columnar cacti (*Neobuxbaumia mezcalaensis* and *Neobuxbaumia macrocephala*) in the Tehuacan Valley, Central Mexico. *American Journal of Botany*, **84**, 452-455.
- Valiente-Banuet A, Molina-Freaner F, Torres A, Del Coro Arizmendi A and Casas A (2004). Geographic differentiation in the pollination system of the columnar cactus *Pachycereus pecten-aboriginum*. *American Journal of Botany*, **91**, 850-855.
- Vallius E, Salonen V and Kull T (2004). Factors of divergence in co-occurring varieties of *Dactylorhiza incarnata* (Orchidaceae). *Plant Systematics and Evolution*, **248**, 177-189.
- Vance NC, Bernhardt P and Edens RM (2004). Pollination and seed production in *Xerophyllum tenax* (Melanthiaceae) in the cascade range of central Oregon. *American Journal of Botany*, **91**, 2060-2068.
- Vaughton G and Ramsey M (1998). Floral display, pollinator visitation and reproductive success in the dioecious perennial herb *Wurmbea dioica* (Liliaceae). *Oecologia*, **115**, 93-101.
- Vilà M, Weber E and D'Antonio CM (1998). Flowering and mating system in hybridizing *Carpobrotus* (Aizoaceae) in coastal California. *Canadian Journal of Botany*, **76**, 1165-1169.
- Ward M and Johnson SD (2005). Pollen limitation and demographic structure in small fragmented populations of *Brunsvigia radulosa* (Amaryllidaceae). *Oikos*, **108**, 253-262.
- Weiblen GD and Brehm BG (1996). Reproductive strategies and barriers to hybridization between *Tellima grandiflora* and *Tolmeia menziesii* (Saxifragaceae). *American Journal of Botany*, **83**, 910-918.
- Wendt T, Canela MBF, De Faria APG and Rios RI (2001). Reproductive biology and natural hybridization between two endemic species of *Pitcairnia* (Bromeliaceae). *American Journal of Botany*, **88**, 1760-1767.
- Wendt T, Canela MBF, Klein DE and Rios RI (2002). Selfing facilitates reproductive isolation among three sympatric species of *Pitcairnia* (Bromeliaceae). *Plant Systematics and Evolution*, **232**, 201-212.
- Wilson P, Castellanos MC, Hogue JN, Thomson JD and Armbruster WS (2004). A multivariate search for pollination syndromes among penstemons. *Oikos*, **104**, 345-361.

- Williams CF, Kuchenreuther MA and Drew A (2000). Floral dimorphism, pollination, and self-fertilization in gynodioecious *Geranium richardsonii* (Geraniaceae). *American Journal of Botany*, **87**, 661-669.
- Williams CF, Ruvinsky J, Scott PE and Hews DK (2001). Pollination, breeding system, and genetic structure in two sympatric *Delphinium* (Ranunculaceae) species. *American Journal of Botany*, **88**, 1623-1633.
- Worley AC, Baker AM, Thompson JD and Barrett SCH (2000). Floral display in *Narcissus*: variation in flower size and number at the species, population, and individual levels. *International Journal of Plant Sciences*, **161**, 69-79.
- Wright JW and Meagher TR (2004). Selection on floral characters in natural Spanish populations of *Silene latifolia*. *Journal of Evolutionary Biology*, **17**, 382-395.
- Yumoto T (2000). Bird-pollination of three *Durio* species (Bombacaceae) in a tropical rainforest in Sarawak, Malaysia. *American Journal of Botany*, **87**, 1181-1188.
- Zamora R (1999). Conditional outcomes of interactions: the pollinator-prey conflict of an insectivorous plant. *Ecology*, **80**, 786-795.
- Zerega NJC, Mound LA and Weiblen GD (2004). Pollination in the New Guinea endemic *Antiaropsis decipiens* (Moraceae) is mediated by a new species of thrips, *Thrips antiaropsidis* sp. nov. (Thysanoptera: Thripidae). *International Journal of Plant Sciences*, **165**, 1017-1026.
- Zhang L, Barrett SCH, Gao JY, Chen J, Cole WW, Liu Y, Bai ZL and Li QJ (2005). Predicting mating patterns from pollination syndromes: the case of "sapromyiophily" in *Tacca chantrieri* (Taccaceae). *American Journal of Botany*, **92**, 517-524.
- Zoller H, Lenzin H and Erhardt A (2002). Pollination and breeding system of *Eritrichium nanum* (Boraginaceae). *Plant Systematics and Evolution*, **233**, 1-14.

Studies cited in Table 15.2

- Albert MJ, Escudero A and Iriondo JM (2001). Female reproductive success of narrow endemic *Erodium paularense* in contrasting microhabitats. *Ecology*, **82**, 1734-1747.
- Alexandersson R and Johnson SD (2002). Pollinator-mediated selection on flower-tube length in a hawkmoth-pollinated *Gladiolus* (Iridaceae). *Proceedings of the Royal Society of London Series B*, **269**, 631-636.
- Andersson S (1996). Floral variation in *Saxifraga granulata*: phenotypic selection, quantitative genetics and predicted response to selection. *Heredity*, **77**, 217-223.
- Aspi J, Jakalaniemi A, Tuomi J and Siikamaki P (2003). Multilevel phenotypic selection on morphological characters in a metapopulation of *Silene tatarica*. *Evolution*, **57**, 509-517.
- Bishop JG and Schemske DW (1998). Variation in flowering phenology and its consequences for lupines colonizing Mount St. Helens. *Ecology*, **79**, 534-546.
- Campbell DR (1989). Measurements of selection in a hermaphroditic plant: variation in male and female pollination success. *Evolution*, **43**, 318-334.
- Campbell DR (1991). Effects of floral traits on sequential components of fitness in *Ipomopsis aggregata*. *American Naturalist*, **137**, 713-737.
- Campbell DR, Waser NM, Price MV, Lynch EA and Mitchell RJ (1991). Components of phenotypic selection: pollen export and flower corolla width in *Ipomopsis aggregata*. *Evolution*, **45**, 1458-1467.
- Campbell DR, Waser NM and Price MV (1994). Indirect selection of stigma position in *Ipomopsis aggregata* via a genetically correlated trait. *Evolution*, **48**, 55-68.
- Campbell DR, Waser NM and Melendez-Ackerman EJ (1997). Analyzing pollinator mediated selection in a plant hybrid zone: hummingbird visitation patterns on three spatial scales. *American Naturalist*, **149**, 295-315.
- Cariveau D, Irwin RE, Brody AK, Garcia-Mayeya LS and von der Ohe A (2004). Direct and indirect effects of pollinators and seed predators to selection on plant and floral traits. *Oikos*, **104**, 15-26.
- Caruso CM (2000). Competition for pollination influences selection on floral traits of *Ipomopsis aggregata*. *Evolution*, **54**, 1546-1557.
- Caruso CM (2001). Differential selection on floral traits of *Ipomopsis aggregata* growing in contrasting environments. *Oikos*, **94**, 295-302.
- Caruso CM (2002). Influence of plant abundance on pollination and selection on floral traits of *Ipomopsis aggregata*. *Ecology*, **83**, 241-254.
- Caruso CM, Peterson SB and Ridley CE (2003). Natural selection on floral traits of *Lobelia* (Lobeliaceae): spatial and temporal variation. *American Journal of Botany*, **90**, 1333-1340.
- Conner JK, Rush S and Jennetten P (1996). Measurements of natural selection on floral traits in wild radish (*Raphanus raphanistrum*). 1. Selection through lifetime female fitness. *Evolution*, **50**, 1127-1136.
- Conner JK, Rush S, Kercher S and Jennetten P (1996). Measurements of natural selection on floral traits in wild radish (*Raphanus raphanistrum*). 2. Selection through lifetime male and total fitness. *Evolution*, **50**, 1137-1146.
- Conner JK and Rush S (1997). Measurements of selection on floral traits in black mustard, *Brassica nigra*. *Journal of Evolutionary Biology*, **10**, 327-335.

- Dieringer G and Cabrera L (1994). Sexual selection of anther trichomes and sexual dimorphism in *Ibervillea lindheimeri* (Cucurbitaceae, Melothrieae). *American Journal of Botany*, **81**, 111-118.
- Eckhart VM (1993). Do hermaphrodites of gynodioecious *Phacelia linearis* (Hydrophyllaceae) trade-off seed production to attract pollinators. *Biological Journal of the Linnean Society*, **50**, 47-63.
- Fenster CB and Ritland K (1994). Evidence for natural selection on mating system in *Mimulus* (Scrophulariaceae). *International Journal of Plant Sciences*, **155**, 588-596.
- Frey FM (2004). Opposing natural selection from herbivores and pathogens may maintain floral-color variation in *Claytonia virginica* (Portulacaceae). *Evolution*, **58**, 2426-2437.
- Gilbert F, Willmer P, Semida F, Ghazoul J and Zalut S (1996). Spatial variation in selection in a plant-pollinator system in the wadis of Sinai, Egypt. *Oecologia*, **108**, 479-487.
- Gómez JM (1993). Phenotypic selection on flowering synchrony in a high-mountain plant, *Hormathophylla spinosa* (Cruciferae). *Journal of Ecology*, **81**, 605-613.
- Gómez JM (2000). Phenotypic selection and response to selection in *Lobularia maritima*: importance of direct and correlational components of natural selection. *Journal of Evolutionary Biology*, **13**, 689-699.
- Gómez JM and Zamora R (2000). Spatial variation in the selective scenarios of *Hormathophylla spinosa* (Cruciferae). *American Naturalist*, **155**, 657-668.
- Gómez JM (2003). Herbivory reduces the strength of pollinator-mediated selection in the Mediterranean herb *Erysimum mediohispanicum*: Consequences for plant specialization. *American Naturalist*, **162**, 242-256.
- Herrera CM (1993). Selection on floral morphology and environmental determinants of fecundity in a hawk-moth-pollinated violet. *Ecological Monographs*, **63**, 251-275.
- Irwin RE (2000). Morphological variation and female reproductive success in two sympatric *Trillium* species: evidence for phenotypic selection in *Trillium erectum* and *Trillium grandiflorum* (Liliaceae). *American Journal of Botany*, **87**, 205-214.
- Irwin RE and Strauss SY (2005). Flower color microevolution in wild radish: evolutionary response to pollinator-mediated selection. *American Naturalist*, **165**, 225-237.
- Johnson SD and Steiner KE (1997). Long-tongued fly pollination and evolution of floral spur length in the *Disa draconis* complex (Orchidaceae). *Evolution*, **51**, 45-53.
- Johnston MO (1991). Natural selection on floral traits in two species of *Lobelia* with different pollinators. *Evolution*, **45**, 1468-1479.
- Juenger T and Bergelson J (1997). Pollen and resource limitation of compensation to herbivory in scarlet gilia, *Ipomopsis aggregata*. *Ecology*, **78**, 1684-1695.
- Levin DA and Brack ET (1995). Natural selection against white petals in *Phlox*. *Evolution*, **49**, 1017-1022.
- Maad J (2000). Phenotypic selection in hawkmoth-pollinated *Platanthera bifolia*: targets and fitness surfaces. *Evolution*, **54**, 112-123.
- Maad J and Alexandersson R (2004). Variable selection in *Platanthera bifolia* (Orchidaceae): phenotypic selection differed between sex functions in a drought year. *Journal of Evolutionary Biology*, **17**, 642-650.
- Medel R, Botto-Mahan C and Kalin-Arroyo M (2003). Pollinator-mediated selection on the nectar guide phenotype in the Andean monkey flower, *Mimulus luteus*. *Ecology*, **84**, 1721-1732.

- Mitchell RJ (1994). Effects of floral traits, pollinator visitation, and plant size on *Ipomopsis aggregata* fruit production. *American Naturalist*, **143**, 870-889.
- Mitchell RJ, Shaw RG and Waser NM (1998). Pollinator selection, quantitative genetics, and predicted evolutionary responses of floral traits in *Penstemon centranthifolius* (Scrophulariaceae). *International Journal of Plant Sciences*, **159**, 331-337.
- Morgan MT and Schoen DJ (1997). Selection on reproductive characters: floral morphology in *Asclepias syriaca*. *Heredity*, **79**, 433-441.
- Nishihiro J, Washitani I, Thomson JD and Thomson BA (2000). Patterns and consequences of stigma height variation in a natural population of a distylous plant, *Primula sieboldii*. *Functional Ecology*, **14**, 502-512.
- O'Connell LM and Johnston MO (1998). Male and female pollination success in a deceptive orchid, a selection study. *Ecology*, **79**, 1246-1260.
- O'Neil P (1999). Selection on flowering time: an adaptive fitness surface for nonexistent character combinations. *Ecology*, **80**, 806-820.
- Ollerton J and Diaz A (1999). Evidence for stabilising selection acting on flowering time in *Arum maculatum* (Araceae): the influence of phylogeny on adaptation. *Oecologia*, **119**, 340-348.
- Parra-Tabla V and Bullock SH (2000). Phenotypic natural selection on flower biomass allocation in the tropical tree *Ipomoea wolcottiana* Rose (Convolvulaceae). *Plant Systematics and Evolution*, **221**, 167-177.
- Parra-Tabla V and Vargas CF (2004). Phenology and phenotypic natural selection on the flowering time of a deceit-pollinated tropical orchid, *Myrmecophila christinae*. *Annals of Botany*, **94**, 243-250.
- Parra-Tabla V and Bullock SH (2005). Ecological and selective effects of stigma-anther separation in the self-incompatible tropical tree *Ipomoea wolcottiana* (Convolvulaceae). *Plant Systematics and Evolution*, **252**, 85-95.
- Pilson D (2000). Herbivory and natural selection on flowering phenology in wild sunflower, *Helianthus annuus*. *Oecologia*, **122**, 72-82.
- Sabat AM and Ackerman JD (1996). Fruit set in a deceptive orchid: the effect of flowering phenology, display size, and local floral abundance. *American Journal of Botany*, **83**, 1181-1186.
- Sánchez-Lafuente AM (2002). Floral variation in the generalist perennial herb *Paeonia broteroi* (Paeoniaceae): differences between regions with different pollinators and herbivores. *American Journal of Botany*, **89**, 1260-1269.
- Schemske DW and Horvitz CC (1989). Temporal variation in selection on a floral character. *Evolution*, **43**, 461-465.
- Schemske DW and Agren J (1995). Deceit pollination and selection on female flower size in *Begonia involucrata* - an experimental approach. *Evolution*, **49**, 207-214.
- Schemske DW and Bierzychudek P (2001). Evolution of flower color in the desert annual *Linanthus parryae*: Wright revisited. *Evolution*, **55**, 1269-1282.
- Stanton M, Young HJ, Ellstrand NC and Clegg JM (1991). Consequences of floral variation for male and female reproduction in experimental populations of wild radish, *Raphanus sativus* L. *Evolution*, **45**, 268-280.
- Stevens L, Goodnight CJ and Kalisz S (1995). Multilevel selection in natural populations of *Impatiens capensis*. *American Naturalist*, **145**, 513-526.

- Torres E, Iriondo JM and Perez C (2002). Vulnerability and determinants of reproductive success in the narrow endemic *Antirrhinum microphyllum* (Scrophulariaceae). *American Journal of Botany*, **89**, 1171-1179.
- Totland O, Andersen HL, Bjelland T, Dahl V, Eide W, Houge S, Pedersen TR and Vie EU (1998). Variation in pollen limitation among plants and phenotypic selection on floral traits in an early-spring flowering herb. *Oikos*, **82**, 491-501.
- Totland O (2001). Environment-dependent pollen limitation and selection on floral traits in an alpine species. *Ecology*, **82**, 2233-2244.
- Waser NM and Price MV (1981). Pollinator choice and stabilizing selection for flower color in *Delphinium nelsonii*. *Evolution*, **35**, 376-390.
- Widen B (1991). Phenotypic selection on flowering phenology in *Senecio integrifolius*, a perennial herb. *Oikos*, **61**, 205-215.
- Wilson P (1995). Selection for pollination success and the mechanical fit of *Impatiens* flowers around bumblebee bodies. *Biological Journal of the Linnean Society*, **55**, 355-383.
- Wright JW and Meagher TR (2004). Selection on floral characters in natural Spanish populations of *Silene latifolia*. *Journal of Evolutionary Biology*, **17**, 382-395.

Studies cited in Table 15.3

- Ackerman JD, Meléndez-Ackerman EJ and Salguero-Faria J (1997). Variation in pollinator abundance and selection on fragrance phenotypes in an epiphytic orchid. *American Journal of Botany*, **84**, 1383-1390.
- Aizen MA (1997). Influence of local floral density and sex ratio on pollen receipt and seed output: empirical and experimental results in dichogamous *Alstroemeria aurea* (Alstroemeriaceae). *Oecologia*, **111**, 404-412.
- Aizen MA (2003). Influences of animal pollination and seed dispersal on winter flowering in a temperate mistletoe. *Ecology*, **84**, 2613-2627.
- Ashman TL (2000). Pollinator selectivity and its implications for the evolution of dioecy and sexual dimorphism. *Ecology*, **81**, 2577-2591.
- Asikainen E and Mutikainen P (2005). Preferences of pollinators and herbivores in gynodioecious *Geranium sylvaticum*. *Annals of Botany*, **95**, 879-886.
- Blionis GJ and Vokou D (2001). Pollination ecology of *Campanula* species on Mt Olympos, Greece. *Ecography*, **24**, 287-297.
- Blionis GJ and Vokou D (2002). Structural and functional divergence of *Campanula spatulata* subspecies on Mt Olympos (Greece). *Plant Systematics and Evolution*, **232**, 89-105.
- Chung MY and Chung MG (2005). Pollination biology and breeding systems in the terrestrial orchid *Bletilla striata*. *Plant Systematics and Evolution*, **252**, 1-9.
- Elle E and Carney R (2003). Reproductive assurance varies with flower size in *Collinsia parviflora* (Scrophulariaceae). *American Journal of Botany*, **90**, 888-896.
- Fausto JA, Eckhart VM and Geber MA (2001). Reproductive assurance and the evolutionary ecology of self-pollination in *Clarkia xantiana* (Onagraceae). *American Journal of Botany*, **88**, 1794-1800.
- Gómez JM and Zamora R (1999). Generalization vs. specialization in the pollination system of *Hormathophylla spinosa* (Cruciferae). *Ecology*, **80**, 796-805.
- Gómez JM and Zamora R (2000). Spatial variation in the selective scenarios of *Hormathophylla spinosa* (Cruciferae). *American Naturalist*, **155**, 657-668.
- Herrera CM, Sánchez-Lafuente AM, Medrano M, Guitián J, Cerdá X and Rey P (2001). Geographical variation in autonomous self-pollination levels unrelated to pollinator service in *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany*, **88**, 1025-1032.
- Herrera CM, Cerdá X, García MB, Guitián J, Medrano M, Rey PJ and Sánchez-Lafuente AM (2002). Floral integration, phenotypic covariance structure and pollinator variation in bumblebee-pollinated *Helleborus foetidus*. *Journal of Evolutionary Biology*, **15**, 108-121.
- Johnson SD and Steiner KE (1997). Long-tongued fly pollination and evolution of floral spur length in the *Disa draconis* complex (Orchidaceae). *Evolution*, **51**, 45-53.
- Johnson SD (2005). Specialized pollination by spider-hunting wasps in the African orchid *Disa sankeyi*. *Plant Systematics and Evolution*, **251**, 153-160.
- Kalisz S and Vogler DW (2003). Benefits of autonomous selfing under unpredictable pollinator environments. *Ecology*, **84**, 2928-2942.
- Kasagi T and Kudo G (2003). Variations in bumble bee preference and pollen limitation among neighboring populations: comparisons between *Phyllodoce caerulea* and *Phyllodoce aleutica* (Ericaceae) along snowmelt gradients. *American Journal of Botany*, **90**, 1321-1327.

- Luyt R and Johnson SD (2001). Hawkmoth pollination of the African epiphytic orchid *Mystacidium venosum*, with special reference to flower and pollen longevity. *Plant Systematics and Evolution*, **228**, 49-62.
- Mitchell RJ (1994). Effects of floral traits, pollinator visitation, and plant size on *Ipomopsis aggregata* fruit production. *American Naturalist*, **143**, 870-889.
- Ollerton J and Diaz A (1999). Evidence for stabilising selection acting on flowering time in *Arum maculatum* (Araceae): the influence of phylogeny on adaptation. *Oecologia*, **119**, 340-348.
- Potts SG, Dafni A and Ne'eman G (2001). Pollination of a core flowering shrub species in Mediterranean phrygana: variation in pollinator diversity, abundance and effectiveness in response to fire. *Oikos*, **92**, 71-80.
- Sánchez-Lafuente AM (2002). Floral variation in the generalist perennial herb *Paeonia broteroi* (Paeoniaceae): differences between regions with different pollinators and herbivores. *American Journal of Botany*, **89**, 1260-1269.
- Sazima M, Buzato S and Sazima I (1999). Bat-pollinated flower assemblages and bat visitors at two Atlantic forest sites in Brazil. *Annals of Botany*, **83**, 705-712.
- Schueller SK (2004). Self-pollination in island and mainland populations of the introduced hummingbird-pollinated plant, *Nicotiana glauca* (Solanaceae). *American Journal of Botany*, **91**, 672-681.
- Silva-Montellano A and Eguiarte LE (2003). Geographic patterns in the reproductive ecology of *Agave lechuguilla* (Agavaceae) in the Chihuahuan desert. I. Floral characteristics, visitors, and fecundity. *American Journal of Botany*, **90**, 377-387.
- Stone GN, Willmer P and Rowe JA (1998). Partitioning of pollinators during flowering in an African *Acacia* community. *Ecology*, **79**, 2808-2827.
- Totland O (2001). Environment-dependent pollen limitation and selection on floral traits in an alpine species. *Ecology*, **82**, 2233-2244.
- Traveset A and Sáez E (1997). Pollination of *Euphorbia dendroides* by lizards and insects: spatio-temporal variation in patterns of flower visitation. *Oecologia*, **111**, 241-248.
- Utelli AB and Roy BA (2000). Pollinator abundance and behavior on *Aconitum lycoctonum* (Ranunculaceae): an analysis of the quantity and quality components of pollination. *Oikos*, **89**, 461-470.
- Valiente-Banuet A, Molina-Freaner F, Torres A, Del Coro Arizmendi A and Casas A (2004). Geographic differentiation in the pollination system of the columnar cactus *Pachycereus pecten-aboriginum*. *American Journal of Botany*, **91**, 850-855.