



*Supplement of*

**The fate of seeds in the soil: a review of the influence of overland flow on seed removal and its consequences for the vegetation of arid and semiarid patchy ecosystems**

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1   **Supplementary material. Reference list of the online literature compilation of 697 papers on**  
2   **the fate of seeds in drylands published between 1974 and 2013.**

- 3   Abbo, S., Y. Saranga, et al. (2009). "Reconsidering domestication of legumes versus cereals in  
4   the ancient near east." *Quarterly Review of Biology* 84(1): 29-50.
- 5   Abiyu, A., M. Lemenih, et al. (2011). "Status of native woody species diversity and soil  
6   characteristics in an exclosure and in plantations of *Eucalyptus globulus* and *Cupressus*  
7   *lusitanica* in northern Ethiopia." *Mountain Research and Development* 31(2): 144-152.
- 8   Aerts, R., W. Maes, et al. (2006). "Surface runoff and seed trapping efficiency of shrubs in a  
9   regenerating semiarid woodland in northern Ethiopia." *Catena* 65(1): 61-70.
- 10   Aerts, R., K. Van Overtveld, et al. (2006). "Species composition and diversity of small  
11   Afromontane forest fragments in northern Ethiopia." *Plant Ecology* 187(1): 127-142.
- 12   Aguado, M., M. J. Vicente, et al. (2012). "The role of the soil seed bank in the unpredictable  
13   habitat of *Anthemis chrysanthia* J. Gay, a critically endangered species." *Flora: Morphology,*  
14   *Distribution, Functional Ecology of Plants* 207(12): 903-907.
- 15   Aguiar, L. M. S. and J. Marinho-Filho (2007). "Bat frugivory in a remnant of southeastern  
16   Brazilian Atlantic forest." *Acta Chiropterologica* 9(1): 251-260.
- 17   Aguiar, M. R. and O. E. Sala (1997). "Seed distribution constrains the dynamics of the  
18   patagonian steppe." *Ecology* 78(1): 93-100.
- 19   Alcántara, J. M., P. J. Rey, et al. (2007). "Geographic variation in the adaptive landscape for  
20   seed size at dispersal in the myrmecochorous *Helleborus foetidus*." *Evolutionary Ecology* 21(3):  
21   411-430.
- 22   Alexander, H. M., B. L. Foster, et al. (2012). "Metapopulations and metacommunities:  
23   Combining spatial and temporal perspectives in plant ecology." *Journal of Ecology* 100(1): 88-  
24   103.
- 25   Ali, S. S., M. Pfosser, et al. (2013). "Out of Africa: Miocene dispersal, vicariance, and extinction  
26   within hyacinthaceae subfamily urgineoideae." *Journal of Integrative Plant Biology* 55(10): 950-  
27   964.
- 28   Allen, P. S. and S. E. Meyer (2002). "Ecology and ecological genetics of seed dormancy in  
29   downy brome." *Weed Science* 50(2): 241-247.
- 30   Ally, D. and K. Ritland (2007). "A case study: Looking at the effects of fragmentation on genetic  
31   structure in different life history stages of old-growth mountain hemlock (*Tsuga mertensiana*)."  
32   *Journal of Heredity* 98(1): 73-78.
- 33   Alvarez-Buylla, E. R., Á. Chaos, et al. (1996). "Demographic genetics of a pioneer tropical tree  
34   species: Patch dynamics, seed dispersal, and seed banks." *Evolution* 50(3): 1155-1166.

- 35 Alvarez-Buylla, E. R. and M. Martínez-Ramos (1990). "Seed bank versus seed rain in the  
36 regeneration of a tropical pioneer tree." *Oecologia* 84(3): 314-325.
- 37 Anačkov, G. T., M. M. Rat, et al. (2013). "Alien invasive neophytes of the Southeastern part of  
38 the Pannonian Plain." *Central European Journal of Biology* 8(10): 1032-1043.
- 39 Andújar, D., J. Barroso, et al. (2012). "Spatial and temporal dynamics of Sorghum halepense  
40 patches in maize crops." *Weed Research* 52(5): 411-420.
- 41 Anderson, K. E., S. J. Novak, et al. (2008). "Populations composed entirely of hybrid colonies:  
42 Bidirectional hybridization and polyandry in harvester ants." *Biological Journal of the Linnean  
43 Society* 95(2): 320-336.
- 44 Aranda-Rickert, A. and S. Fracchia. (2012). "Are subordinate ants the best seed dispersers?  
45 Linking dominance hierarchies and seed dispersal ability in myrmecochory interactions."  
46 *Arthropod-Plant Interactions* 6(2): 297-306.
- 47 Aranda-Rickert, A. and S. Fracchia. (2011). "Pogonomyrmexcunicularius as the keystone  
48 disperser of elaiosome-bearing *Jatropha excisa* seeds in semi-arid Argentina." *Entomologia  
49 Experimentalis et Applicata* 139(2): 91-102.
- 50 Argaw, M., D. Teketay, et al. (1999). "Soil seed flora, germination and regeneration pattern of  
51 woody species in an Acacia woodland of the Rift Valley in Ethiopia." *Journal of Arid  
52 Environments* 43(4): 411-435.
- 53 Aschero, V. and D. García. (2012). "The fencing paradigm in woodland conservation:  
54 Consequences for recruitment of a semi-arid tree." *Applied Vegetation Science* 15(3): 307-317.
- 55 Östergård, H. and J. Ehrlén (2005). "Among population variation in specialist and generalist  
56 seed predation - The importance of host plant distribution, alternative hosts and  
57 environmental variation." *Oikos* 111(1): 39-46.
- 58 Auffret, A. G. and S. A. O. Cousins. (2011). "Past and present management influences the seed  
59 bank and seed rain in a rural landscape mosaic." *Journal of Applied Ecology* 48(5): 1278-1285.
- 60 Aukema, J. E. (2004). "Distribution and dispersal of desert mistletoe is scale-dependent,  
61 hierarchically nested." *Ecography* 27(2): 137-144.
- 62 Aukema, J. E. and C. Martínez Del Rio. (2002). "Variation in mistletoe seed deposition: Effects  
63 of intra- and interspecific host characteristics." *Ecography* 25(2): 139-144.
- 64 Aukema, J. E. and C. Martínez Del Rio. (2002). "Where does a fruit-eating bird deposit  
65 mistletoe seeds? Seed deposition patterns and an experiment." *Ecology* 83(12): 3489-3496.
- 66 Avila-Cabadilla, L. D., G. A. Sanchez-Azofeifa, et al. (2012). "Local and landscape factors  
67 determining occurrence of phyllostomid bats in tropical secondary forests." *PLoS ONE* 7(4).
- 68 Aziz, S. and M. A. Khan (1996). "Seed bank dynamics of a semi-arid coastal shrub community in  
69 Pakistan." *Journal of Arid Environments* 34(1): 81-87.

- 70 Aziz, S. and S. Shahid Shaukat. (2011). "Demographic studies of *Ipomoea sindica* stapf, a  
71 desert summer annual." *Pakistan Journal of Botany* 43(6): 3035-3040.
- 72 Aziz, S. and S. S. Shaukat. (2012). "Population ecology of *cleome viscosa* L., a desert summer  
73 annual." *Pakistan Journal of Botany* 44(5): 1633-1638.
- 74 Baes, P. O., M. De Viana, et al. (2001). "The fate of *Prosopis ferox* seeds from unremoved pods  
75 at National Park Los Cardones." *Journal of Arid Environments* 48(2): 185-190.
- 76 Baes, P. O., M. L. De Viana, et al. (2002). "Germination in *Prosopis ferox* seeds: Effects of  
77 mechanical, chemical and biological scarificators." *Journal of Arid Environments* 50(1): 185-  
78 189.
- 79 Baker, H. G. and P. A. Cox (1984). "Further thoughts on dioecism and islands." *Annals -*  
80 *Missouri Botanical Garden* 71(1): 244-253.
- 81 Bangle, D. N., L. R. Walker, et al. (2008). "Seed germination of the invasive plant *Brassica*  
82 *tournefortii* (Sahara mustard) in the Mojave Desert." *Western North American Naturalist* 68(3):  
83 334-342.
- 84 Baraza, E. and A. Valiente-Banuet. (2008). "Seed dispersal by domestic goats in a semiarid  
85 thornscrub of Mexico." *Journal of Arid Environments* 72(10): 1973-1976.
- 86 Barberá, G. G., J. A. Navarro-Cano, et al. (2006). "Seedling recruitment in a semi-arid steppe:  
87 The role of microsite and post-dispersal seed predation." *Journal of Arid Environments* 67(4):  
88 701-714.
- 89 Barcelos, A. R., P. E. D. Bobrowiec, et al. (2013). "Seed germination from lowland tapir (*Tapirus*  
90 *terrestris*) fecal samples collected during the dry season in the northern Brazilian Amazon."  
91 *Integrative Zoology* 8(1): 63-73.
- 92 Barea, L. P. and M. L. G. Herrera. (2009). "Sources of protein in two semi-arid zone mistletoe  
93 specialists: Insights from stable isotopes." *Austral Ecology* 34(7): 821-828.
- 94 Barker, N. P. (2005). "A review and survey of basicarpy, geocarpy, and amphicarpy in the  
95 African and Madagascan flora." *Annals of the Missouri Botanical Garden* 92(4): 445-462.
- 96 Barkley, T. M. (1988). "Variation among the Aureoid Senecios of North America: A geohistorical  
97 interpretation." *The Botanical Review* 54(1): 82-105.
- 98 Barnea, A., Y. Yom-Tov, et al. (1990). "Differential germination of two closely related species of  
99 *Solanum* in response to bird ingestion." *Oikos* 57(2): 222-228.
- 100 Barnes, M. E. (2001). "Seed predation, germination and seedling establishment of *Acacia*  
101 *erioloba* in northern Botswana." *Journal of Arid Environments* 49(3): 541-554.
- 102 Barot, S., J. Gignoux, et al. (1999). "Demography of a savanna palm tree: Predictions from  
103 comprehensive spatial pattern analyses." *Ecology* 80(6): 1987-2005.

- 104 Barrow, J. R., K. M. Havstad, et al. (1997). "Seed-borne fungal endophytes on fourwing  
105 saltbush, *Atriplex canescens*." *Arid Soil Research and Rehabilitation* 11(4): 307-314.
- 106 Barthlott, W. and S. Poremski (1996). "Ecology and morphology of *Blossfeldia liliputana*  
107 (cactaceae): A poikilohydric and almost astomate succulent." *Botanica Acta* 109(2): 161-166.
- 108 Bass, J. (2004). "Incidental agroforestry in Honduras: The jícaro tree (*Crescentia* spp.) and  
109 pasture land use." *Journal of Latin American Geography* 3(1): 67-80.
- 110 Beatty, S. W. (1991). "Colonization dynamics in a mosaic landscape: the buried seed pool."  
111 *Journal of Biogeography* 18(5): 553-563.
- 112 Beck, M. J. and S. B. Vander Wall. (2010). "Seed dispersal by scatter-hoarding rodents in arid  
113 environments." *Journal of Ecology* 98(6): 1300-1309.
- 114 Beckie, H. J. and A. Francis. (2009). "The Biology of Canadian Weeds. 65. *Salsola tragus* L.  
115 (updated)." *Canadian Journal of Plant Science* 89(4): 775-789.
- 116 Beckie, H. J., L. M. Hall, et al. (2005). "Patch management of herbicide-resistant wild oat  
117 (*Avena fatua*)." *Weed Technology* 19(3): 697-705.
- 118 Benkman, C. W. (1999). "The selection mosaic and diversifying coevolution between crossbills  
119 and lodgepole pine." *American Naturalist* 153(SUPPL.): S75-S91.
- 120 Ben-Shahar, R. (1991). "Successional patterns of woody plants in catchment areas in a semi-  
121 arid region." *Vegetatio* 93(1): 19-27.
- 122 Bertiller, M. B. and F. Coronato. (1994). "Seed bank patterns of *Festuca pallescens* in semiarid  
123 Patagonia (Argentina): A possible limit to bunch reestablishment." *Biodiversity and  
124 Conservation* 3(1): 57-67.
- 125 Bertiller, M. B., C. L. Sain, et al. (2002). "Spatial sex segregation in the dioecious grass *Poa*  
126 *ligularis* in northern Patagonia: The role of environmental patchiness." *Biodiversity and  
127 Conservation* 11(1): 69-84.
- 128 Bhagwat, S. A., S. Nogué, et al. (2012). "Resilience of an ancient tropical forest landscape to  
129 7500 years of environmental change." *Biological Conservation* 153: 108-117.
- 130 Blázquez, M. C. and R. Rodríguez-Estrella. (2007). "Microhabitat selection in diet and trophic  
131 ecology of a spiny-tailed iguana *Ctenosaura hemilopha*." *Biotropica* 39(4): 496-501.
- 132 Blendinger, P. G., R. A. Ruggera, et al. (2012). "Fine-tuning the fruit-tracking hypothesis:  
133 Spatiotemporal links between fruit availability and fruit consumption by birds in Andean  
134 mountain forests." *Journal of Animal Ecology* 81(6): 1298-1310.
- 135 Blitzer, E. J., C. F. Dormann, et al. (2012). "Spillover of functionally important organisms  
136 between managed and natural habitats." *Agriculture, Ecosystems and Environment* 146(1): 34-  
137 43.

- 138 Bochet, E., P. García-Fayos, et al. (2007). "Road slope revegetation in semiarid mediterranean  
139 environments. Part I: Seed dispersal and spontaneous colonization." *Restoration Ecology* 15(1):  
140 88-96.
- 141 Boeken, B., C. Ariza, et al. (2004). "Environmental factors affecting dispersal, germination and  
142 distribution of *Stipa capensis* in the Negev Desert, Israel." *Ecological Research* 19(5): 533-540.
- 143 Boeken, B., C. Lipchin, et al. (1998). "Annual plant community responses to density of small-  
144 scale soil disturbances in the Negev Desert of Israel." *Oecologia* 114(1): 106-117.
- 145 Boeken, B. and M. Shachak. (1994). "Desert plant communities in human-made patches -  
146 Implications for management." *Ecological Applications* 4(4): 702-716.
- 147 Boeken, B. and M. Shachak. (1998). "Colonization by annual plants of an experimentally  
148 altered desert landscape: Source-sink relationships." *Journal of Ecology* 86(5): 804-814.
- 149 Boeken, B. and M. Shachak. (2006). "Linking community and ecosystem processes: The role of  
150 minor species." *Ecosystems* 9(1): 119-127.
- 151 Bossel, H. and H. Krieger. (1991). "Simulation model of natural tropical forest dynamics."  
152 *Ecological Modelling* 59(1-2): 37-71.
- 153 Bossel, H. and H. Krieger. (1994). "Simulation of multi-species tropical forest dynamics using a  
154 vertically and horizontally structured model." *Forest Ecology and Management* 69(1-3): 123-  
155 144.
- 156 Boudell, J. A. and J. C. Stromberg. (2008). "Flood pulsing and metacommunity dynamics in a  
157 desert riparian ecosystem." *Journal of Vegetation Science* 19(3): 373-380.
- 158 Bowers, J. E. (2000). "Does *Ferocactus wislizeni* (Cactaceae) have a between-year seed bank?"  
159 *Journal of Arid Environments* 45(3): 197-205.
- 160 Bowers, J. E., R. H. Webb, et al. (1997). "Succession of desert plants on debris flow terraces,  
161 Grand Canyon, Arizona, U.S.A." *Journal of Arid Environments* 36(1): 67-86.
- 162 Bowman, D. M. J. S. and J. K. Dingle. (2006). "Late 20th century landscape-wide expansion of  
163 *Allosyncarpia ternata* (Myrtaceae) forests in Kakadu National Park, northern Australia."  
164 *Australian Journal of Botany* 54(8): 707-715.
- 165 Brändel, M. (2007). "Ecology of achene dimorphism in *Leontodon saxatilis*." *Annals of Botany*  
166 100(6): 1189-1197.
- 167 Braatne, J. H., S. J. Brunsfeld, et al. (2006). "Naturalization of plains cottonwood (*Populus*  
168 *deltoides* subsp. *monilifera*) along river drainages west of the Rocky Mountains." *Western*  
169 *North American Naturalist* 66(3): 310-320.
- 170 Bradstock, R. A., M. Bedward, et al. (1996). "Simulation of the effect of spatial and temporal  
171 variation in fire regimes on the population viability of a Banksia species." *Conservation Biology*  
172 10(3): 776-784.

- 173 Brand, J. E. (2002). "Review of the influence of Acacia species on establishment of Sandalwood  
174 (*Santalum spicatum*) in Western Australia." *Conservation Science Western Australia* 4(3): 125-  
175 129.
- 176 Breen, A. N. and J. H. Richards. (2010). "Seed dispersal, seed entrapment, and seedling  
177 recruitment in a temporally variable desert playa." *Western North American Naturalist* 70(1):  
178 55-66.
- 179 Bronstein, J. L., W. G. Wilson, et al. (2003). "Ecological Dynamics of Mutualist/Antagonist  
180 Communities." *American Naturalist* 162(4 SUPPL.): S24-S39.
- 181 Brown, J. R. and S. Archer. (1988). "Woody plant seed dispersal and gap formation in a North  
182 American subtropical savanna woodland: the role of domestic herbivores." *Vegetatio* 73(2):  
183 73-80.
- 184 Brown, J. R. and S. Archer. (1999). "Shrub invasion of grassland: Recruitment is continuous and  
185 not regulated by herbaceous biomass or density." *Ecology* 80(7): 2385-2396.
- 186 Bruun, H. H. (2000). "Patterns of species richness in dry grassland patches in an agricultural  
187 landscape." *Ecography* 23(6): 641-650.
- 188 Bullock, S. H. (1989). "Life history and seed dispersal of the short-lived chaparral shrub  
189 *Dendromecon rigida* (Papaveraceae)." *American Journal of Botany* 76(10): 1506-1517.
- 190 Burke, A. (2002). "Island - Matrix relationships in Nama Karoo inselberg landscapes. Part I: Do  
191 inselbergs provide a refuge for matrix species?" *Plant Ecology* 160(1): 79-90.
- 192 Burke, A. (2003). "The role of Namibian inselbergs in contributing to local and regional plant  
193 species richness." *Biodiversity and Conservation* 12(3): 469-486.
- 194 Burke, A. (2005). "Endemic plants of the arid succulent karoo in Namibia: Towards hypotheses  
195 for their evolution." *Ecography* 28(2): 171-180.
- 196 Burke, A., N. Jürgens, et al. (1998). "Floristic affinities of an inselberg archipelago in the  
197 southern Namib desert - Relic of the past, centre of endemism or nothing special?" *Journal of  
198 Biogeography* 25(2): 311-317.
- 199 Burkness, E. C. and W. D. Hutchison. (2012). "Bt pollen dispersal and Bt kernel mosaics:  
200 Integrity of non-Bt refugia for lepidopteran resistance management in Maize." *Journal of  
201 Economic Entomology* 105(5): 1773-1780.
- 202 Burley, J., C. E. Hughes, et al. (1986). "Genetic systems of tree species for arid and semiarid  
203 lands." *Forest Ecology and Management* 16(1-4): 317-343.
- 204 Burns, K. C. (2012). "Seed dispersal: The blind bomb maker." *Current Biology* 22(13): R535-  
205 R537.

- 206 Bustamante, R. O., R. A. Vásquez, et al. (2012). "The onset of precipitation mediates plant-  
207 avian disperser interaction in recalcitrant seeds: The case of *Cryptocarya alba* (MOL) Looser, in  
208 Mediterranean ecosystems, Central Chile." *Plant Ecology and Diversity* 5(1): 75-79.
- 209 Butler, C. J., E. A. Wheeler, et al. (2012). "Distribution of the threatened lace hedgehog cactus  
210 (*Echinocereus reichenbachii*) under various climate change scenarios." *Journal of the Torrey  
211 Botanical Society* 139(1): 46-55.
- 212 Butler, R. J., P. M. Barrett, et al. (2009). "Testing co-evolutionary hypotheses over geological  
213 timescales: Interactions between Mesozoic non-avian dinosaurs and cycads." *Biological  
214 Reviews* 84(1): 73-89.
- 215 Caballero, I., J. M. Olano, et al. (2003). "Seed bank structure along a semi-arid gypsum gradient  
216 in Central Spain." *Journal of Arid Environments* 55(2): 287-299.
- 217 Cabin, R. J., A. S. Evans, et al. (1997). "Genetic effects of germination timing and environment:  
218 An experimental investigation." *Evolution* 51(5): 1427-1434.
- 219 Cabin, R. J., D. L. Marshall, et al. (2000). "The demographic role of soil seed banks. II.  
220 Investigations of the fate of experimental seeds of the desert mustard *Lesquerella fendleri*."  
221 *Journal of Ecology* 88(2): 293-302.
- 222 Cabral, A. C., J. M. De Miguel, et al. (2003). "Shrub encroachment in Argentinean savannas."  
223 *Journal of Vegetation Science* 14(2): 145-152.
- 224 Cain, M. L., H. Damman, et al. (1998). "Seed dispersal and the Holocene migration of woodland  
225 herbs." *Ecological Monographs* 68(3): 325-347.
- 226 Calviño-Cancela, M., T. He, et al. (2008). "Distribution of myrmecochorous species over the  
227 landscape and their potential long-distance dispersal by emus and kangaroos." *Diversity and  
228 Distributions* 14(1): 11-17.
- 229 Campos, C. M., V. E. Campos, et al. (2011). "Relationships between *Prosopis flexuosa*  
230 (Fabaceae) and cattle in the Monte desert: Seeds, seedlings and saplings on cattle-use site  
231 classes." *Revista Chilena de Historia Natural* 84(2): 289-299.
- 232 Campos, C. M., S. M. Giannoni, et al. (2007). "Removal of mesquite seeds by small rodents in  
233 the Monte desert, Argentina." *Journal of Arid Environments* 69(2): 228-236.
- 234 Campos, C. M. and R. A. Ojeda. (1997). "Dispersal and germination of *Prosopis flexuosa*  
235 (Fabaceae) seeds by desert mammals in Argentina." *Journal of Arid Environments* 35(4): 707-  
236 714.
- 237 Campos, C. M., B. Peco, et al. (2008). "Endozoochory by native and exotic herbivores in dry  
238 areas: Consequences for germination and survival of *Prosopis* seeds." *Seed Science Research*  
239 18(2): 91-100.
- 240 Campos-Arceiz, A. and S. Blake. (2011). "Megagardeners of the forest - the role of elephants in  
241 seed dispersal." *Acta Oecologica* 37(6): 542-553.

- 242 Canham, C. D. and P. L. Marks. (1985). "The response of woody plants to disturbance: patterns  
243 of establishment and growth." *The ecology of natural disturbance and patch dynamics*: 197-  
244 216.
- 245 Cao, D., J. Li, et al. (2012). "Reproductive characteristics of a *Populus euphratica* population  
246 and prospects for its restoration in China." *PLoS ONE* 7(7).
- 247 Cardina, J., G. A. Johnson, et al. (1997). "The nature and consequence of weed spatial  
248 distribution." *Weed Science* 45(3): 364-373.
- 249 Carlucci, M. B., L. D. S. Duarte, et al. (2011). "Nurse rocks influence forest expansion over  
250 native grassland in southern Brazil." *Journal of Vegetation Science* 22(1): 111-119.
- 251 Carroll, S. P. and J. E. Loye. (1990). "Male-biased sex ratios, female promiscuity, and copulatory  
252 mate guarding in an aggregating tropical bug, *Dysdercus bimaculatus*." *Journal of Insect  
253 Behavior* 3(1): 33-48.
- 254 Casper, B. B. (1988). "Post-dispersal seed predation may select for wind dispersal but not seed  
255 number per dispersal unit in *Cryptantha flava*." *Oikos* 52(1): 27-30.
- 256 Castillo-Núñez, M., G. A. Sánchez-Azofeifa, et al. (2011). "Delineation of secondary succession  
257 mechanisms for tropical dry forests using LiDAR." *Remote Sensing of Environment* 115(9):  
258 2217-2231.
- 259 Castro, S., V. Ferrero, et al. (2010). "Dispersal mechanisms of the narrow endemic *Polygala  
260 vayredae*: Dispersal syndromes and spatio-temporal variations in ant dispersal assemblages."  
261 *Plant Ecology* 207(2): 359-372.
- 262 Chambers, J. C. (2000). "Seed movements and seedling fates in disturbed sagebrush steppe  
263 ecosystems: Implications for restoration." *Ecological Applications* 10(5): 1400-1413.
- 264 Chang, C. S., B. Bongarten, et al. (1998). "Genetic structure of natural populations of black  
265 locust (*Robinia pseudoacacia* L.) at Coweeta, North Carolina." *Journal of Plant Research  
266* 111(1101): 17-24.
- 267 Chapman, G. P. (1990). "The widening perspective: reproductive biology of bamboos, some  
268 dryland grasses and cereals." *Reproductive versatility in the grasses*: 240-257.
- 269 Chave, J. (1999). "Study of structural, successional and spatial patterns in tropical rain forests  
270 using TROLL, a spatially explicit forest model." *Ecological Modelling* 124(2-3): 233-254.
- 271 Chen, F. and J. Chen. (2011). "Dispersal syndrome differentiation of *Pinus armandii* in  
272 Southwest China: Key elements of a potential selection mosaic." *Acta Oecologica* 37(6): 587-  
273 593.
- 274 Chen, J., J. Liu, et al. (2011). "The structure and spatial patterns of three desert shrub  
275 communities in the western Ordos Plateau: Implications for biodiversity conservation." *Journal  
276 of Food, Agriculture and Environment* 9(3-4): 714-722.

- 277 Cheng, K., R. Zang, et al. (2007). "Influence of floods on natural riparian forests along the Ergis  
278 River, west China." *Frontiers of Forestry in China* 2(1): 66-71.
- 279 Childe, S. L. (1988). "Phenology of nine common woody species in semi-arid, deciduous  
280 Kalahari Sand vegetation." *Vegetatio* 79(3): 151-163.
- 281 Cipriotti, P. A. and M. R. Aguiar. (2005). "Effects of grazing on patch structure in a semi-arid  
282 two-phase vegetation mosaic." *Journal of Vegetation Science* 16(1): 57-66.
- 283 Clark-Tapia, R., C. Alfonso-Corrado, et al. (2005). "Clonal diversity and distribution in  
284 *Stenocereus eruca* (Cactaceae), a narrow endemic cactus of the Sonoran Desert." *American  
285 Journal of Botany* 92(2): 272-278.
- 286 Cochard, R. and B. R. Jackes. (2005). "Seed ecology of the invasive tropical tree *Parkinsonia  
287 aculeata*." *Plant Ecology* 180(1): 13-31.
- 288 Coffin, D. P. and W. K. Lauenroth. (1989). "Disturbances and gap dynamics in a semiarid  
289 grassland: A landscape-level approach." *Landscape Ecology* 3(1): 19-27.
- 290 Cole, K. L., K. Ironside, et al. 2011. "Past and ongoing shifts in Joshua tree distribution support  
291 future modeled range contraction." *Ecological Applications* 21(1): 137-149.
- 292 Cole, P. G. and J. F. Weltzin. (2005). "Light limitation creates patchy distribution of an invasive  
293 grass in eastern deciduous forests." *Biological Invasions* 7(3): 477-488.
- 294 Comes, H. P. and R. J. Abbott. (1999). "Population genetic structure and gene flow across arid  
295 versus mesic environments: A comparative study of two parapatric *Senecio* species from the  
296 Near East." *Evolution* 53(1): 36-54.
- 297 Commander, L. E., D. P. Rokich, et al. (2013). "Optimising seed broadcasting and greenstock  
298 planting for restoration in the Australian arid zone." *Journal of Arid Environments* 88: 226-235.
- 299 Cousens, R. D., K. R. Young, et al. (2010). "The role of the persistent fruit wall in seed water  
300 regulation in *Raphanus raphanistrum* (Brassicaceae)." *Annals of Botany* 105(1): 101-108.
- 301 Cousins, S. R., E. T. F. Witkowski, et al. (2013). "Reproductive ecology of *Aloe plicatilis*, a fynbos  
302 tree aloe endemic to the Cape Winelands, South Africa." *South African Journal of Botany* 87:  
303 52-65.
- 304 Crawford, D., M. Tago-Nakazawa, et al. (2001). "Intersimple sequence repeat (ISSR) variation in  
305 *Lactoris fernandeziana* (Lactoridaceae), a rare endemic of the Juan Fernández Archipelago,  
306 Chile." *Plant Species Biology* 16(3): 185-192.
- 307 Crawley, M. J. (1986). "Plant ecology." *Plant Ecology*. Blackwell Scientific. 496 p.
- 308 Cruz-Mazo, G., E. Narbona, et al. (2010). "Germination patterns of dimorphic achenes in three  
309 related species of *Scorzoneroides* (Asteraceae, Lactuceae) growing in different environments."  
310 *Annales Botanici Fennici* 47(5): 337-345.

- 311 Cui, Y., X. Wang, et al. (2010). "A comparative study of soil seed banks over different  
312 microhabitats in naturally stabilized sandy land." *Shengtai Xuebao/ Acta Ecologica Sinica* 30(8):  
313 1981-1989.
- 314 Curt, T., W. Adra, et al. (2009). "Fire-driven oak regeneration in French Mediterranean  
315 ecosystems." *Forest Ecology and Management* 258(9): 2127-2135.
- 316 da Silva, C. R., J. M. Barbosa, et al. (2009). "Seed rain in a high sandbank forest in ilha Comprida  
317 (SP)." *Cerne* 15(3): 355-365.
- 318 Díaz, F. P., C. Latorre, et al. (2012). "Rodent middens reveal episodic, long-distance plant  
319 colonizations across the hyperarid Atacama Desert over the last 34,000 years." *Journal of  
320 Biogeography* 39(3): 510-525.
- 321 Dauber, J., A. Rommeler, et al. (2006). "The ant *Lasius flavus* alters the viable seed bank  
322 in pastures." *European Journal of Soil Biology* 42(SUPPL. 1): S157-S163.
- 323 Davidson, D. W. and S. R. Morton. (1981). "Competition for dispersal in ant-dispersed plants."  
324 *Science* 213(4513): 1259-1261.
- 325 Davidson, D. W. and S. R. Morton. (1984). "Dispersal adaptations of some Acacia species in the  
326 Australian arid zone." *Ecology* 65(4): 1038-1051.
- 327 Davies, K. W. and R. L. Sheley. (2007). "Influence of neighboring vegetation height on seed  
328 dispersal: Implications for invasive plant management." *Weed Science* 55(6): 626-630.
- 329 Davis, S. D. and H. A. Mooney. (1985). "Comparative water relations of adjacent California  
330 shrub and grassland communities." *Oecologia* 66(4): 522-529.
- 331 Daws, M. I., N. C. Garwood, et al. (2006). "Prediction of desiccation sensitivity in seeds of  
332 woody species: A probabilistic model based on two seed traits and 104 species." *Annals of  
333 Botany* 97(4): 667-674.
- 334 Day, W., M. E. R. Paice, et al. (1996). Modelling weed control under spatially selective spraying.  
335 *Acta Horticulturae*. 406: 281-288.
- 336 Dayong, Z. (1990). "Detection of spatial pattern in desert shrub populations: A comment."  
337 *Ecological Modelling* 51(3-4): 265-271.
- 338 De Cauwer, I., M. Dufay, et al. (2012). "Gynodioecy in structured populations: Understanding  
339 fine-scale sex ratio variation in *Beta vulgaris* ssp. *maritima*." *Molecular Ecology* 21(4): 834-850.
- 340 de la Peña, E., B. D'Hondt, et al. (2011). "Landscape structure, dispersal and the evolution of  
341 antagonistic plant-herbivore interactions." *Ecography* 34(3): 480-487.
- 342 Dean, W. R. J. and S. J. Milton. (2000). "Directed dispersal of *Opuntia* species in the Karoo,  
343 South Africa: Are crows the responsible agents?" *Journal of Arid Environments* 45(4): 305-314.

- 344 Dean, W. R. J., S. J. Milton, et al. (1999). "Large trees, fertile islands, and birds in arid savanna."  
345 Journal of Arid Environments 41(1): 61-78.
- 346 Dean, W. R. J., S. J. Milton, et al. (1990). "Dispersal of seeds as nest material by birds in  
347 semiarid Karoo shrubland." Ecology 71(4): 1299-1306.
- 348 Defalco, L. A., T. C. Esque, et al. (2012). "Supplementing seed banks to rehabilitate disturbed  
349 Mojave Desert shrublands: Where do all the seeds go?" Restoration Ecology 20(1): 85-94.
- 350 Dejean, A., T. Bourgoin, et al. (1997). "Ant species that protect figs against other ants: Result of  
351 territoriality induced by a mutualistic homopteran." Ecoscience 4(4): 446-453.
- 352 DeMiguel, D., B. Azanza, et al. (2011). "Paleoenvironments and paleoclimate of the Middle  
353 Miocene of central Spain: A reconstruction from dental wear of ruminants." Palaeogeography,  
354 Palaeoclimatology, Palaeoecology 302(3-4): 452-463.
- 355 DeSimone, S. A. and P. H. Zedler (2001). "Do shrub colonizers of southern Californian grassland  
356 fit generalities for other woody colonizers?" Ecological Applications 11(4): 1101-1111.
- 357 Devi Khumbongmayum, A., M. L. Khan, et al. (2006). "Biodiversity conservation in sacred  
358 groves of Manipur, northeast India: Population structure and regeneration status of woody  
359 species." Biodiversity and Conservation 15(8): 2439-2456.
- 360 D'Orangeville, L., A. Bouchard, et al. (2008). "Post-agricultural forests: Landscape patterns add  
361 to stand-scale factors in causing insufficient hardwood regeneration." Forest Ecology and  
362 Management 255(5-6): 1637-1646.
- 363 Dornier, A., V. Pons, et al. (2011). "Colonization and extinction dynamics of an annual plant  
364 metapopulation in an urban environment." Oikos 120(8): 1240-1246.
- 365 dos Santos, M. M. G., J. M. Oliveira, et al. (2011). "Seed rain of woody species in mosaics of  
366 Araucaria forest and grasslands in Southern Brazil." Acta Botanica Brasilica 25(1): 160-167.
- 367 Dreber, N. and K. J. Esler. (2011). "Spatio-temporal variation in soil seed banks under  
368 contrasting grazing regimes following low and high seasonal rainfall in arid Namibia." Journal  
369 of Arid Environments 75(2): 174-184.
- 370 Dreber, N., J. Oldeland, et al. (2011). "Species, functional groups and community structure in  
371 seed banks of the arid Nama Karoo: Grazing impacts and implications for rangeland  
372 restoration." Agriculture, Ecosystems and Environment 141(3-4): 399-409.
- 373 Drezner, T. D., P. L. Fall, et al. (2001). "Plant distribution and dispersal mechanisms at the  
374 Hassayampa River Preserve, Arizona, USA." Global Ecology and Biogeography 10(2): 205-217.
- 375 Duarte, L., M. Carlucci, et al. (2011). "Plant diaspore traits as indicators of mutualistic  
376 interactions in woody vegetation patches developing into a grassland-forest mosaic."  
377 Community Ecology 12(1): 126-134.

- 378 Duarte, L. D. S., M. B. Carlucci, et al. (2007). "Plant dispersal strategies and the colonization of  
379 Araucaria forest patches in a grassland-forest mosaic." *Journal of Vegetation Science* 18(6):  
380 847-858.
- 381 Duarte, L. D. S., M. M. G. Dos-Santos, et al. (2006). "Role of nurse plants in Araucaria Forest  
382 expansion over grassland in south Brazil." *Austral Ecology* 31(4): 520-528.
- 383 Duarte, L. D. S., G. S. Hofmann, et al. (2010). "Testing for the influence of niche and neutral  
384 factors on sapling community assembly beneath isolated woody plants in grasslands." *Journal*  
385 of *Vegetation Science* 21(3): 462-471.
- 386 Dudley, J. P. (2000). "Seed dispersal by elephants in semiarid woodland habitats of Hwange  
387 National Park, Zimbabwe." *Biotropica* 32(3): 556-561.
- 388 Dullinger, S., T. Mang, et al. (2011). "Patch configuration affects alpine plant distribution."  
389 *Ecography* 34(4): 576-587.
- 390 Duniway, M. C., J. E. Herrick, et al. (2010). "Assessing transportation infrastructure impacts on  
391 rangelands: Test of a standard rangeland assessment protocol." *Rangeland Ecology and*  
392 *Management* 63(5): 524-536.
- 393 Dunstan, H., S. K. Florentine, et al. (2013). "Dietary characteristics of Emus (*Dromaius*  
394 *novaehollandiae*) in semi-arid New South Wales, Australia, and dispersal and germination of  
395 ingested seeds." *Emu* 113(2): 168-176.
- 396 Dupré, C. and J. Ehrlén. (2002). "Habitat configuration, species traits and plant distributions."  
397 *Journal of Ecology* 90(5): 796-805.
- 398 Dussart, E., P. Lerner, et al. (1998). "Long term dynamics of 2 populations of *Prosopis caldenia*  
399 Burkart." *Journal of Range Management* 51(6): 685-691.
- 400 Eccles, N. S., K. J. Esler, et al. (1999). "Spatial pattern analysis in Namaqualand desert plant  
401 communities: Evidence for general positive interactions." *Plant Ecology* 142(1-2): 71-85.
- 402 Ehrman, T. and P. S. Cocks. (1996). "Reproductive patterns in annual legume species on an  
403 aridity gradient." *Vegetatio* 122(1): 47-59.
- 404 El-Bakatoushi, R., A. K. Hegazy, et al. (2011). "Genetic diversity in coastal and inland desert  
405 populations of *Peganum harmala* L. (Peganaceae)." *African Journal of Biotechnology* 10(71):  
406 15883-15890.
- 407 Elderkin, R. H. (1982). "Seed dispersal in a patchy environment with global age dependence."  
408 *Journal of Mathematical Biology* 13(3): 283-303.
- 409 Eldridge, D. J. (2011). "The resource coupling role of animal foraging pits in semi-arid  
410 woodlands." *Ecohydrology* 4(5): 623-630.

- 411 El-Keblawy, A. (2003). "Effects of achene dimorphism on dormancy and progeny traits in the  
412 two ephemerals *Hedypnois cretica* and *Crepis aspera* (Asteraceae)." Canadian Journal of  
413 Botany 81(6): 550-559.
- 414 Elmquist, T. and P. A. Cox (1996). "The evolution of vivipary in flowering plants." Oikos 77(1): 3-  
415 9.
- 416 Elorza, M. S., F. G. Bernardo, et al. (2010). "Invasiveness of alien vascular plants in six arid  
417 zones of Europe, Africa and America." Lazaroa 31: 109-126.
- 418 El-Sheikh, M. A. (2013). "Population structure of woody plants in the arid cloud forests of  
419 Dhofar, southern Oman." Acta Botanica Croatica 72(1): 97-111.
- 420 Eminniyaz, A., J. Qiu, et al. (2013). "Dispersal mechanisms of the invasive alien plant species  
421 *buffalobur* (*solanum rostratum*) in cold desert sites of northwest China." Weed Science 61(4):  
422 557-563.
- 423 Emmerson, L., J. M. Facelli, et al. (2010). "Secondary seed dispersal of *Erodiophyllum elderi*, a  
424 patchily distributed short-lived perennial in the arid lands of Australia." Austral Ecology 35(8):  
425 906-918.
- 426 Emmerson, L. M., J. M. Facelli, et al. (2012). "Changes in seed dispersal processes and the  
427 potential for between-patch connectivity for an arid land daisy." Ecology 93(3): 544-553.
- 428 Endels, P., D. Adriaens, et al. (2007). "Groupings of life-history traits are associated with  
429 distribution of forest plant species in a fragmented landscape." Journal of Vegetation Science  
430 18(4): 499-508.
- 431 Engelbrecht, M. and P. García-Fayos. (2012). "Mucilage secretion by seeds doubles the chance  
432 to escape removal by ants." Plant Ecology 213(7): 1167-1175.
- 433 Eriksson, O., S. A. O. Cousins, et al. (2002). "Land-use history and fragmentation of traditionally  
434 managed grasslands in Scandinavia." Journal of Vegetation Science 13(5): 743-748.
- 435 Erkovan, H. I., P. J. Clarke, et al. (2013). "Seed bank dynamics of *Acacia farnesiana* (L.) Willd.  
436 and its encroachment potential in sub-humid grasslands of eastern Australia." Rangeland  
437 Journal 35(4): 427-433.
- 438 Eshiamwata, G. W., D. G. Berens, et al. (2006). "Bird assemblages in isolated *Ficus* trees in  
439 Kenyan farmland." Journal of Tropical Ecology 22(6): 723-726.
- 440 Ettema, C. H., S. L. Rathbun, et al. (2000). "On spatiotemporal patchiness and the coexistence  
441 of five species of *Chronogaster* (Nematoda: Chronogasteridae) in a riparian wetland."  
442 Oecologia 125(3): 444-452.
- 443 Eycott, A. E., A. R. Watkinson, et al. (2007). "The dispersal of vascular plants in a forest mosaic  
444 by a guild of mammalian herbivores." Oecologia 154(1): 107-118.

- 445 Favier, C., J. Chave, et al. (2004). "Modelling forest-savanna mosaic dynamics in man-  
446 influenced environments: Effects of fire, climate and soil heterogeneity." Ecological Modelling  
447 171(1-2): 85-102.
- 448 Favier, C. and M. A. Dubois. (2004). Reconstructing forest savanna dynamics in Africa using a  
449 cellular automata model, FORSAT. Lecture Notes in Computer Science (including subseries  
450 Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 3305: 484-491.
- 451 Fedriani, J. M., P. J. Rey, et al. (2004). "Geographical variation in the potential of mice to  
452 constrain an ant-seed dispersal mutualism." Oikos 105(1): 181-191.
- 453 Ferber, S., W. T. Stam, et al. (2008). "Genetic diversity and connectivity remain high in eelgrass  
454 Zostera marina populations in the Wadden Sea, despite major impacts." Marine Ecology  
455 Progress Series 372: 87-96.
- 456 Flaherty, E. A., M. Ben-David, et al. (2010). "Diet and food availability: Implications for foraging  
457 and dispersal of prince of wales northern flying squirrels across managed landscapes." Journal  
458 of Mammalogy 91(1): 79-91.
- 459 Fleming, T. H. and V. J. Sosa. (1994). "Effects of nectarivorous and frugivorous mammals on  
460 reproductive success of plants." Journal of Mammalogy 75(4): 845-851.
- 461 FlInner, S. and A. Shmida. (1981). "Why are adaptations for long-range seed dispersal rare in  
462 desert plants?" Oecologia 51(1): 133-144.
- 463 Floyd, M. E. (1983). "Dioecy in five *Pinus edulis* populations in the Southwestern United  
464 States." American Midland Naturalist 110(2): 405-411.
- 465 Fort, K. P. and J. H. Richards. (1998). "Does seed dispersal limit initiation of primary succession  
466 in desert playas?" American Journal of Botany 85(12): 1722-1731.
- 467 Fotouo Makouate, H., M. W. Van Rooyen, et al. (2012). "Anatomy of myxospermic diaspores of  
468 selected species in the Succulent Karoo, Namaqualand, South Africa." Bothalia 42(1): 7-13.
- 469 Fragoso, J. M. V. (1997). "Tapir-generated seed shadows: Scale-dependent patchiness in the  
470 Amazon rain forest." Journal of Ecology 85(4): 519-529.
- 471 Fragoso, J. M. V., K. M. Silvius, et al. (2003). "Long-distance seed dispersal by tapirs increases  
472 seed survival and aggregates tropical trees." Ecology 84(8): 1998-2006.
- 473 Franco-PizaÃ±a, J. G., T. E. Fulbright, et al. (1996). "Shrub emergence and seedling growth in  
474 microenvironments created by *Prosopis glandulosa*." Journal of Vegetation Science 7(2): 257-  
475 264.
- 476 Freas, K. E. and P. R. Kemp. (1983). "Some relationships between environmental reliability and  
477 seed dormancy in desert annual plants." Journal of Ecology 71(1): 211-217.

- 478 Fredrickson, E. L., R. E. Estell, et al. (2006). "Mesquite recruitment in the Chihuahuan Desert:  
479 Historic and prehistoric patterns with long-term impacts." *Journal of Arid Environments* 65(2):  
480 285-295.
- 481 Freeman, D. C., L. G. Klikoff, et al. (1976). "Differential resource utilization by the sexes of  
482 dioecious plants." *Science* 193(4253): 597-599.
- 483 Friesen, L. F., H. J. Beckie, et al. (2009). "The biology of Canadian weeds. 138. Kochia scoparia  
484 (L.) schrad." *Canadian Journal of Plant Science* 89(1): 141-167.
- 485 GÃ³mez-Aparicio, L., M. A. Zavala, et al. (2009). "Are pine plantations valid tools for restoring  
486 Mediterranean forests? An assessment along abiotic and biotic gradients." *Ecological  
487 Applications* 19(8): 2124-2141.
- 488 Gabay, O., A. Perevolotsky, et al. (2012). "How landscape modulators function: Woody plant  
489 impact on seed dispersal and abiotic filtering." *Plant Ecology* 213(4): 685-693.
- 490 Galen, C., M. L. Stanton, et al. (1997). Source-sink dynamics and the effect of an environmental  
491 gradient on gene flow and genetic substructure of the alpine buttercup, *Ranunculus adoneus*.  
492 *Opera Botanica*: 179-188.
- 493 GarcÃ¡a, D., J. R. Obeso, et al. (2005). "Spatial concordance between seed rain and seedling  
494 establishment in bird-dispersed trees: Does scale matter?" *Journal of Ecology* 93(4): 693-704.
- 495 GarcÃ¡a, D. and R. Ortiz-Pulido. (2004). "Patterns of resource tracking by avian frugivores at  
496 multiple spatial scales: Two case studies on discordance among scales." *Ecography* 27(2): 187-  
497 196.
- 498 GarcÃ¡a, D., M. A. RodrÃguez-Cabal, et al. (2009). "Seed dispersal by a frugivorous marsupial  
499 shapes the spatial scale of a mistletoe population." *Journal of Ecology* 97(2): 217-229.
- 500 GarcÃ¡a, D., R. Zamora, et al. (2011). "The spatial scale of plant-animal interactions: Effects of  
501 resource availability and habitat structure." *Ecological Monographs* 81(1): 103-121.
- 502 GarcÃ¡a-ChÃ¡vez, J., V. J. Sosa, et al. (2010). "Variation in post-dispersal predation of cactus seeds  
503 under nurse plant canopies in three plant associations of a semiarid scrubland in central  
504 Mexico." *Journal of Arid Environments* 74(1): 54-62.
- 505 GarcÃ¡a-Fayos, P., M. Engelbrecht, et al. (2013). "Post-dispersal seed anchorage to soil in  
506 semiarid plant communities, a test of the hypothesis of Ellner and Shmida." *Plant Ecology*  
507 214(7): 941-952.
- 508 GarcÃ¡a-Fayos, P. and M. Gasque. (2006). "Seed vs. microsite limitation for seedling emergence  
509 in the perennial grass *Stipa tenacissima* L. (Poaceae)." *Acta Oecologica* 30(2): 276-282.
- 510 GarcÃ¡a-Guzman, P., A. P. Loayza, et al. (2012). "The ecology, distribution and conservation  
511 status of *Myrcianthes coquimbensis*: A globally endangered endemic shrub of the Chilean  
512 Coastal Desert." *Plant Ecology and Diversity* 5(2): 197-204.

- 513 Garcia, D., R. Zamora, et al. (2010). "Birds as suppliers of seed dispersal in temperate  
514 ecosystems: Conservation guidelines from real-world landscapes." *Conservation Biology* 24(4):  
515 1070-1079.
- 516 Garrido, J. L., P. J. Rey, et al. (2002). "Geographical variation in diaspore traits of an ant-  
517 dispersed plant (*Helleborus foetidus*): Are ant community composition and diaspore traits  
518 correlated?" *Journal of Ecology* 90(3): 446-455.
- 519 Garvin, S. C. and S. E. Meyer. (2003). "Multiple mechanisms for seed dormancy regulation in  
520 shadscale (*Atriplex confertifolia*: Chenopodiaceae)." *Canadian Journal of Botany* 81(6): 601-  
521 610.
- 522 Gasque, M. and P. García-Fayos. (2003). "Seed dormancy and longevity in *Stipa tenacissima* L.  
523 (Poaceae)." *Plant Ecology* 168(2): 279-290.
- 524 Gavin, D. G. and D. R. Peart. (1997). "Spatial structure and regeneration of *Tetramerista glabra*  
525 in peat swamp rain forest in Indonesian Borneo." *Plant Ecology* 131(2): 223-231.
- 526 Ge, G., A. N. Zhao, et al. (2011). "Patterns of dominant populations of plants in islets of Poyan  
527 Lake." *Wetland Science* 9(1): 19-25.
- 528 Gedalovich, E., J. Kuijt, et al. (1988). "Chemical composition of viscin, an adhesive involved in  
529 dispersal of the parasite *Phoradendron californicum* (Viscaceae)." *Physiological and Molecular  
530 Plant Pathology* 32(1): 61-76.
- 531 Gemeinholzer, B., F. May, et al. (2012). "Strong genetic differentiation on a fragmentation  
532 gradient among populations of the heterocarpic annual *Catananche lutea* L. (Asteraceae)." "  
533 *Plant Systematics and Evolution* 298(8): 1585-1596.
- 534 Geng, Y., S. Tang, et al. (2009). "Fine- and landscape-scale spatial genetic structure of cushion  
535 rockjasmine, *Androsace tapete* (Primulaceae), across southern Qinghai-Tibetan Plateau."  
536 *Genetica* 135(3): 419-427.
- 537 Ghermandi, L., N. Guthmann, et al. (2004). "Early post-fire succession in northwestern  
538 Patagonia grasslands." *Journal of Vegetation Science* 15(1): 67-76.
- 539 Giannoni, S. M., V. E. Campos, et al. (2013). "Hoarding patterns of sigmodontine rodent species  
540 in the central monte desert (argentina)." *Austral Ecology* 38(5): 485-492.
- 541 Giladi, I., M. Segoli, et al. (2013). "Shrubs and herbaceous seed flow in a semi-arid landscape:  
542 Dual functioning of shrubs as trap and barrier." *Journal of Ecology* 101(1): 97-106.
- 543 Giladi, I., M. Segoli, et al. (2007). "The effect of shrubs on the seed rain of annuals in a semiarid  
544 landscape." *Israel Journal of Plant Sciences* 55(1): 83-92.
- 545 Gile, L. H. (1975). "Holocene soils and soil-geomorphic relations in an arid region of southern  
546 New Mexico." *Quaternary Research* 5(3): 321-360.

- 547 Gile, L. H., R. P. Gibbens, et al. (1997). "The near-ubiquitous pedogenic world of mesquite roots  
548 in an arid basin floor." *Journal of Arid Environments* 35(1): 39-58.
- 549 Giorgetti, H. D., Z. Manuel, et al. (2000). "Phenology of some herbaceous and woody species in  
550 central, semiarid Argentina." *Phyton* 69(1): 91-108.
- 551 Givnish, T. J. (1999). "On the causes of gradients in tropical tree diversity." *Journal of Ecology*  
552 87(2): 193-210.
- 553 Givnish, T. J., T. M. Evans, et al. (1999). "Polyphyly and Convergent Morphological Evolution in  
554 Commelinaceae and Commelinidae: Evidence from rbcL Sequence Data." *Molecular  
555 Phylogenetics and Evolution* 12(3): 360-385.
- 556 Glen, A. S., A. E. Byrom, et al. (2012). "Ecology of brushtail possums in a New Zealand dryland  
557 ecosystem." *New Zealand Journal of Ecology* 36(1): 29-37.
- 558 Godínez-Alvarez, H., A. Valiente-Banuet, et al. (2002). "The role of seed dispersers in the  
559 population dynamics of the columnar cactus *Neobuxbaumia tetetzo*." *Ecology* 83(9): 2617-  
560 2629.
- 561 Godínez-Alvarez, H. and A. Valiente-Banuet. (2000). "Fruit-feeding behavior of the bats  
562 *Leptonycteris curasoae* and *Choeronycteris mexicana* in flight cage experiments:  
563 Consequences for dispersal of columnar cactus seeds." *Biotropica* 32(3): 552-556.
- 564 Godoy, J. A. and P. Jordano. (2001). "Seed dispersal by animals: Exact identification of source  
565 trees with endocarp DNA microsatellites." *Molecular Ecology* 10(9): 2275-2283.
- 566 Goldblatt, P. (1997). "Floristic diversity in the Cape Flora of South Africa." *Biodiversity and  
567 Conservation* 6(3): 359-377.
- 568 Goldblatt, P. and J. C. Manning. (2002). "Plant diversity of the Cape region of southern Africa."  
569 *Annals of the Missouri Botanical Garden* 89(2): 281-302.
- 570 Gonzalez-Andujar, J. L., J. N. Perry, et al. (1999). "Modeling effects of spatial patterns on the  
571 seed bank dynamics of *Alopecurus myosuroides*." *Weed Science* 47(6): 697-705.
- 572 Green, A. K., D. Ward, et al. (2009). "Directed dispersal of mistletoe (*Plicosepalus acaciae*) by  
573 Yellow-vented Bulbuls (*Pycnonotus xanthopygos*)."*Journal of Ornithology* 150(1): 167-173.
- 574 Green, D. G. (1989). "Simulated effects of fire, dispersal and spatial pattern on competition  
575 within forest mosaics." *Vegetatio* 82(2): 139-153.
- 576 Green, J. J. and D. M. Newbery. (2002). "Reproductive investment and seedling survival of the  
577 mast-fruiting rain forest tree, *Microberlinia bisulcata* A. chev."*Plant Ecology* 162(2): 169-183.
- 578 Griz, L. M. S. and I. C. S. Machado. (2001). "Fruiting phenology and seed dispersal syndromes in  
579 caatinga, a tropical dry forest in the northeast of Brazil." *Journal of Tropical Ecology* 17(2): 303-  
580 321.

- 581 Gu, W., Y. Yue, et al. "Diffusion of elm seed rain in otindag sand land." *Shengtai Xuebao/ Acta*  
582 *Ecologica Sinica* 32(11): 3440-3448.
- 583 Guarino, R., B. Ferrario, et al. (2005). "A stochastic model of seed dispersal pattern to assess  
584 seed predation by ants in annual dry grasslands." *Plant Ecology* 178(2): 225-235.
- 585 Guevara De Lampe, M., Y. Bergeron, et al. (1992). "Seasonal flowering and fruiting patterns in  
586 tropical semi-arid vegetation of northeastern Venezuela." *Biotropica* 24(1): 64-76.
- 587 Guevara, S. and J. Laborde. (1993). "Monitoring seed dispersal at isolated standing trees in  
588 tropical pastures: consequences for local species availability." *Vegetatio* 107-108(1): 319-338.
- 589 Guimaraes, R. L. and H. E. Flores. (2005). "Tropaeolum mosaic potyvirus (TropMV) reduces  
590 yield of Andean mashua (*Tropaeolum tuberosum*) accessions." *HortScience* 40(5): 1405-1407.
- 591 Gunster, A. (1992). "Aerial seed banks in the central Namib: distribution of serotinous plants in  
592 relation to climate and habitat." *Journal of Biogeography* 19(5): 563-572.
- 593 Gunster, A. (1993). "Microhabitat differentiation among serotinous plants in the Namib  
594 Desert." *Journal of Vegetation Science* 4(5): 585-590.
- 595 Gunster, A. (1994). "Phenological niches of coexisting serotinous plants in the Namib Desert."  
596 *Journal of Tropical Ecology* 10(4): 531-544.
- 597 Gunster, A. (1994). "Seed bank dynamics - longevity, viability and predation of seeds of  
598 serotinous plants in the central Namib Desert." *Journal of Arid Environments* 28(3): 195-205.
- 599 Guo, Q., J. H. Brown, et al. (2000). "Constraints of seed size on plant distribution and  
600 abundance." *Ecology* 81(8): 2149-2155.
- 601 Guterman, Y. (1988). "Day-neutral flowering in some desert *Blepharis* spp." *Journal of Arid  
602 Environments* 15(2): 157-167.
- 603 Guterman, Y. (1994). "In memoriam - Michael Evenari and his desert. Seed dispersal and  
604 germination strategies of *Spergularia diandra* compared with some other desert annual plants  
605 inhabiting the Negev Desert of Israel." *Israel Journal of Plant Sciences* 42(4): 261-274.
- 606 Guterman, Y. (1994). "Strategies of seed dispersal and germination in plants inhabiting  
607 deserts." *Botanical Review* 60(4): 373-425.
- 608 Guterman, Y. (1994). "Strategies of seed dispersal and germination in plants inhabiting  
609 deserts." *BOT.REV.* 60(4): 373-425.
- 610 Guterman, Y. (1997). "Effect of daylength on flowering and seed morphology of *Spergularia  
611 diandra* occurring in the Negev Desert Israel." *Journal of Arid Environments* 36(4): 611-622.
- 612 Guterman, Y. (2000). "Environmental factors and survival strategies of annual plant species in  
613 the Negev Desert, Israel." *Plant Species Biology* 15(2): 113-125.

- 614 Guterman, Y. (2002). "Survival adaptations and strategies of annuals occurring in the Judean  
615 and Negev Deserts of Israel." Israel Journal of Plant Sciences 50(3): 165-175.
- 616 Guterman, Y. (2003). "The inhibitory effect of Negev Desert loess soil on the fast germinating  
617 caryopses of *Schismus arabicus* (Poaceae)." Journal of Arid Environments 54(4): 619-631.
- 618 Guterman, Y., T. Gendler, et al. (2007). Plant dispersal strategies, seed bank distribution and  
619 germination of Negev desert species. *Seeds: Biology, Development and Ecology*: 407-415.
- 620 Gworek, J. R., S. B. Vander Wall, et al. (2007). "Changes in biotic interactions and climate  
621 determine recruitment of Jeffrey pine along an elevation gradient." *Forest Ecology and  
622 Management* 239(1-3): 57-68.
- 623 Haase, P., F. I. Pugnaire, et al. (1995). "Seed production and dispersal in the semi-arid tussock  
624 grass *Stipa tenacissima* L. during masting." *Journal of Arid Environments* 31(1): 55-65.
- 625 Hamza, N. B. "(2010). Genetic variation within and among three invasive *prosopis juliflora*  
626 (Leguminosae) populations in the River Nile State, Sudan." *International Journal of Genetics  
627 and Molecular Biology* 2(5): 92-100.
- 628 Han, J., Y. Wei, et al. (2011). "The vivipary characteristic of *Anabasis elatior* and its ecological  
629 adaptation." *Shengtai Xuebao/ Acta Ecologica Sinica* 31(10): 2662-2668.
- 630 Hanan, E. J., M. S. Ross, et al. (2010). "Multi-Scaled Grassland-Woody Plant Dynamics in the  
631 Heterogeneous Marl Prairies of the Southern Everglades." *Ecosystems* 13(8): 1256-1274.
- 632 Hanssen, I. M., R. Mumford, et al. (2010). "Seed transmission of Pepino mosaic virus in  
633 tomato." *European Journal of Plant Pathology* 126(2): 145-152.
- 634 Harrelson, S. M. and G. R. Matlack. (2006). "Influence of stand age and physical environment  
635 on the herb composition of second-growth forest, Strouds Run, Ohio, USA." *Journal of  
636 Biogeography* 33(6): 1139-1149.
- 637 Hartz, S. M., G. C. Pinheiro, et al. (2012). "The potential role of migratory birds in the expansion  
638 of araucaria forest." *Natureza a Conservacao* 10(1): 52-56.
- 639 Haskins, K. E. and C. A. Gehring (2004). "Long-term effects of burning slash on plant  
640 communities and arbuscular mycorrhizae in a semi-arid woodland." *Journal of Applied Ecology*  
641 41(2): 379-388.
- 642 He, T., B. B. Lamont, et al. (2010). "Genetic connectivity and inter-population seed dispersal of  
643 Banksia hookeriana at the landscape scale." *Annals of Botany* 106(3): 457-466.
- 644 Hegazy, A. K. (1990). "Population ecology and implications for conservation of *Cleome  
645 droserifolia*: a threatened xerophyte." *Journal of Arid Environments* 19(3): 269-282.
- 646 Hegazy, A. K., H. N. Barakat, et al. (2006). "Anatomical significance of the hygrochastic  
647 movement in *Anastatica hierochuntica*." *Annals of Botany* 97(1): 47-55.

- 648 Hegazy, A. K. and A. A. El-Khatib. (2001). "Growth and energy content of three forage grasses  
649 from the Middle East Rangelands." *Acta Agronomica Hungarica* 49(2): 119-131.
- 650 Hegazy, A. K. and H. F. Kabiell. (2007). "Significance of microhabitat heterogeneity in the spatial  
651 pattern and size-class structure of *Anastatica hierochuntica* L." *Acta Oecologica* 31(3): 332-342.
- 652 Hegazy, A. K., H. F. Kabiell, et al. (2013). "Plasticity in dynamics and hydrochastic persistence in  
653 *Anastatica hierochuntica* L. (Brassicaceae) populations under simulated rainfall treatments."  
654 *Polish Journal of Ecology* 61(3): 493-504.
- 655 Hegazy, A. K., J. Lovett-Doust, et al. (2011). "Size- and season-related sex expression and  
656 reproductive performance in gynodioecious *Ochradenus baccatus* Delile (Resedaceae), at Wadi  
657 Degla, Egypt." *Flora: Morphology, Distribution, Functional Ecology of Plants* 206(12): 1002-  
658 1011.
- 659 Henschel, J. R. and M. K. Seely. (2000). "Long-term growth patterns of *Welwitschia mirabilis*, a  
660 long-lived plant of the Namib Desert (including a bibliography)." *Plant Ecology* 150(1-2): 7-26.
- 661 Hensen, I. (1999). "Life strategies in a semi-arid grassland community -mechanisms of dispersal  
662 and reproduction within *Lapiedro martinezii-stipetum tenacissimae* (southeastern Spain)." *Feddes Repertorium* 110(3-4): 265-285.
- 664 Hernandez, R. R. and D. R. Sandquist. (2011). "Disturbance of biological soil crust increases  
665 emergence of exotic vascular plants in California sage scrub." *Plant Ecology* 212(10): 1709-  
666 1721.
- 667 Hernandezii, M., B. A. Santini, et al. (2013). "Does retained-seed priming drive the evolution of  
668 serotiny in drylands? an assessment using the cactus." *American Journal of Botany* 100(2): 365-  
669 373.
- 670 Herrera, C. M., P. Jordano, et al. (1994). "Recruitment of a mast-fruiting, bird-dispersed tree:  
671 Bridging frugivore activity and seedling establishment." *Ecological Monographs* 64(3): 315-344.
- 672 Hirata, R. and S. Ito. (2013). "Conceptual patterns of movement by birds between patches in  
673 forest landscape." *Japanese Journal of Ecology* 63(2): 229-238.
- 674 Hirsinger, F. and P. F. Knowles. (1984). "Morphological and agronomic description of selected  
675 Cuphea germplasm." *Economic Botany* 38(4): 439-451.
- 676 Hollander, J. L. and S. B. Vander Wall. (2009). "Dispersal syndromes in North American  
677 *Ephedra*." *International Journal of Plant Sciences* 170(3): 323-330.
- 678 Hollander, J. L., S. B. Vander Wall, et al. (2010). "Evolution of seed dispersal in North American  
679 *Ephedra*." *Evolutionary Ecology* 24(2): 333-345.
- 680 Horn, A., G. Pachmann, et al. (2013). "Can sheep replace indigenous antelope as seed  
681 dispersers in the Kalahari?" *Journal of Arid Environments* 91: 69-78.

- 682 Hovestadt, T., H. J. Poethke, et al. (2005). "Spatial patterns in species-area relationships and  
683 species distribution in a West African forest-savanna mosaic." *Journal of Biogeography* 32(4):  
684 677-684.
- 685 Hovestadt, T., P. Yao, et al. (1999). "Seed dispersal mechanisms and the vegetation of forest  
686 islands in a West African forest-savanna mosaic (Comoe National Park, Ivory Coast)." *Plant  
687 Ecology* 144(1): 1-25.
- 688 Hoyle, G. L., M. I. Daws, et al. (2008). "Mimicking a semi-arid tropical environment achieves  
689 dormancy alleviation for seeds of Australian native Goodeniaceae and Asteraceae." *Annals of  
690 Botany* 101(5): 701-708.
- 691 Hubbard, J. A. and G. R. McPherson. (1999). "Do seed predation and dispersal limit downslope  
692 movement of a semi-desert grassland/oak woodland transition?" *Journal of Vegetation  
693 Science* 10(5): 739-744.
- 694 Hulme, P. E. (1998). "Post-dispersal seed predation: Consequences for plant demography and  
695 evolution." *Perspectives in Plant Ecology, Evolution and Systematics* 1(1): 32-46.
- 696 Hunter, E. A., J. P. Gibbs, et al. (2013). "Equivalency of galápagos giant tortoises used as  
697 ecological replacement species to restore ecosystem functions." *Conservation Biology* 27(4):  
698 701-709.
- 699 Husband, B. C. and S. C. H. Barrett. (1996). "A metapopulation perspective in plant population  
700 biology." *Journal of Ecology* 84(3): 461-469.
- 701 Iannuzzi, L., L. C. Leal, et al. (2013). "First record of myrmecochorous diaspores removal by  
702 dung beetles in the Caatinga vegetation, a Brazilian semiarid ecosystem." *Journal of Arid  
703 Environments* 88: 1-3.
- 704 Ibáñez, I. and E. W. Schupp. (2002). "Effects of litter, soil surface conditions, and  
705 microhabitat on *Cercocarpus ledifolius* Nutt. Seedling emergence and establishment." *Journal  
706 of Arid Environments* 52(2): 209-221.
- 707 Ibanez, T., L. Borgniet, et al. (2013). "Rainforest and savanna landscape dynamics in New  
708 Caledonia: Towards a mosaic of stable rainforest and savanna states?" *Austral Ecology* 38(1):  
709 33-45.
- 710 Inglis, G. J. (2000). "Disturbance-related heterogeneity in the seed banks of a marine  
711 angiosperm." *Journal of Ecology* 88(1): 88-99.
- 712 Ipanga, D. M., S. J. Milton, et al. (2009). "Reproductive potential and seedling establishment of  
713 the invasive alien tree *Schinus molle* (Anacardiaceae) in South Africa." *Austral Ecology* 34(6):  
714 678-687.
- 715 Izhaki, I. and G. Ne'eman. (1997). "Hares (*Lepus* spp.) as seed dispersers of *Retama raetam*  
716 (Fabaceae) in a sandy landscape." *Journal of Arid Environments* 37(2): 343-354.

- 717 Izhaki, I. and U. N. Safriel. (1985). "Why do fleshy-fruit plants of the mediterranean scrub  
718 intercept fall-but not spring-passage of seed-dispersing migratory birds?" *Oecologia* 67(1): 40-  
719 43.
- 720 Jacobs, B. S. and S. A. Lesmeister. (2012). "Maternal environmental effects on fitness, fruit  
721 morphology and ballistic seed dispersal distance in an annual forb." *Functional Ecology* 26(3):  
722 588-597.
- 723 Jacobson, K. M. and E. Lester. (2003). "A first assessment of genetic variation in *Welwitschia*  
724 *mirabilis* hook." *Journal of Heredity* 94(3): 212-217.
- 725 Jamali, T. I. K. (1990). "Temperature regulating germination mechanism in *Indigofera*  
726 *hochstetteri* Baker in a semi-arid region and its survival value." *Environmental Education &*  
727 *Information* 9(3): 131-140.
- 728 Jenny, M. and J. Halfmann. (1993). "Dispersal spectra of three plant habitats with similar  
729 physiognomy in mesic and arid zones." *Flora(Jena)* 188(2): 213-225.
- 730 Jentsch, A., W. Beyschlag, et al. (2002). "Soil disturbance - Major force for vegetation dynamics  
731 in sand habitats; consequences for management measures in nature conservation."  
732 *Naturschutz und Landschaftsplanung* 34(2-3): 37-44.
- 733 Johansen, A. D. and R. G. Latta. (2003). "Mitochondrial haplotype distribution, seed dispersal  
734 and patterns of postglacial expansion of ponderosa pine." *Molecular Ecology* 12(1): 293-298.
- 735 Johnson, C. N. (2009). "Ecological consequences of late quaternary extinctions of megafauna."  
736 *Proceedings of the Royal Society B: Biological Sciences* 276(1667): 2509-2519.
- 737 Johnson, D. V., J. Delgadillo, et al. (2013). "Date palm (*Phoenix dactylifera*) dispersal to the  
738 Americas: Historical evidence of the Spanish introduction." *Acta Horticulturae*. 994: 99-104.
- 739 Johnson, M., S. B. Vander Wall, et al. (2003). "A comparative analysis of seed and cone  
740 characteristics and seed-dispersal strategies of three pines in the subsection *Sabinianae*." *Plant*  
741 *Ecology* 168(1): 69-84.
- 742 Jon Furbish, D., E. M. Childs, et al. (2009). "Rain splash of soil grains as a stochastic advection-  
743 dispersion process, with implications for desert plant-soil interactions and land-surface  
744 evolution." *Journal of Geophysical Research B: Solid Earth* 114(3).
- 745 Jones, M. M., S. Ferrier, et al. (2013). "Strong congruence in tree and fern community turnover  
746 in response to soils and climate in central Panama." *Journal of Ecology* 101(2): 506-516.
- 747 José-María, L., L. Armengot, et al. (2010). "Effects of agricultural intensification on plant  
748 diversity in Mediterranean dryland cereal fields." *Journal of Applied Ecology* 47(4): 832-840.
- 749 Joubert, E. C., T. M. Harms, et al. (2012). "A CFD study of wind patterns over a desert dune and  
750 the effect on seed dispersion." *Environmental Fluid Mechanics* 12(1): 23-44.

- 751 Juárez, L., C. Montaña, et al. (2011). "Genetic structure at patch level of the terrestrial orchid  
752 Cyclopogon luteoalbus (Orchidaceae) in a fragmented cloud forest." Plant Systematics and  
753 Evolution 297(3-4): 237-251.
- 754 Jung, F., K. Böhning-Gaese, et al. (2008). "Life history variation across a riverine landscape:  
755 Intermediate levels of disturbance favor sexual reproduction in the ant-dispersed herb  
756 Ranunculus ficaria." Ecography 31(6): 776-786.
- 757 Jurado, E., E. Estrada, et al. (2001). "Characterizing plant attributes with particular emphasis on  
758 seeds in Tamaulipan thornscrub in semi-arid Mexico." Journal of Arid Environments 48(3): 309-  
759 321.
- 760 Jurado, E., J. Flores, et al. (2006). "Seed removal rates under isolated trees and continuous  
761 vegetation in semiarid thornscrub." Restoration Ecology 14(2): 204-209.
- 762 Jurado, E. and M. Westoby. (1992). "Germination biology of selected central Australian plants."  
763 Australian Journal of Ecology 17(3): 341-348.
- 764 Jurado, E., M. Westoby, et al. (1991). "Diaspore weight, dispersal, growth form and  
765 perenniability of central Australian plants." Journal of Ecology 79(3): 811-828.
- 766 Jurand, B. S., S. R. Abella, et al. (2013). "Soil seed bank longevity of the exotic annual grass  
767 Bromus rubens in the Mojave Desert, USA." Journal of Arid Environments 94: 68-75.
- 768 Kéfi, S., M. Van Baalen, et al. (2008). "Evolution of local facilitation in arid ecosystems."  
769 American Naturalist 172(1): E1-E17.
- 770 Kadmon, K. and A. Shmida. (1990). "Spatiotemporal demographic processes in plant  
771 populations: an approach and a case study." American Naturalist 135(3): 382-397.
- 772 Kadmon, R. (1997). "Neighbor competition modifies demographic responses of desert dune  
773 annuals to gradients in sand stability." Journal of Arid Environments 36(4): 557-564.
- 774 Kalwij, J. M., S. J. Milton, et al. (2008). "Road verges as invasion corridors? A spatial hierarchical  
775 test in an arid ecosystem." Landscape Ecology 23(4): 439-451.
- 776 Kamenetsky, R. and Y. Guterman. (1994). "Life cycles and delay of seed dispersal in some  
777 geophytes inhabiting the Negev Desert highlands of Israel." Journal of Arid Environments  
778 27(4): 337-345.
- 779 Kardol, P., A. V. d. Wal, et al. (2008). "Restoration of species-rich grasslands on ex-arable land:  
780 Seed addition outweighs soil fertility reduction." Biological Conservation 141(9): 2208-2217.
- 781 KassiN'Dja, J. K. and G. Decocq. (2008). "Successional patterns of plant species and community  
782 diversity in a semi-deciduous tropical forest under shifting cultivation." Journal of Vegetation  
783 Science 19(6): 809-820.

- 784 Keddy, C. J., P. A. Keddy, et al. (1983). "An ecological study of *Cypripedium passerinum* Rich. (sparrow's egg lady-slipper, Orchidaceae) on the north shore of Lake Superior." Canadian Field-Naturalist 97(3): 268-274.
- 787 Kelm, D. H., K. R. Wiesner, et al. (2008). "Effects of artificial roosts for frugivorous bats on seed dispersal in a neotropical forest pasture mosaic." Conservation Biology 22(3): 733-741.
- 789 Kigel, J. (1992). "Diaspore heteromorphism and germination in populations of the ephemeral *Hedypnois rhagadioloides* (L.) F.W. Schmidt (Asteraceae) inhabiting a geographic range of increasing aridity." Acta Oecologica 13(1): 45-53.
- 792 Kinlan, B. P., S. D. Gaines, et al. (2005). "Propagule dispersal and the scales of marine community process." Diversity and Distributions 11(2): 139-148.
- 794 Kirmer, A. and S. Tischew. (2010). "Near-Natural Restoration Strategies in Post-Mining Landscapes." Urban Biodiversity and Design: 539-555.
- 796 Kirmer, A., S. Tischew, et al. (2008). "Importance of regional species pools and functional traits in colonization processes: Predicting re-colonization after large-scale destruction of ecosystems." Journal of Applied Ecology 45(5): 1523-1530.
- 799 Kitamura, K., K. Homma, et al. (2001). "Demographic genetics of the American beech, *Fagus grandifolia*. II. Genet substructure of populations for the blue ridge, piedmont and the Great Smoky Mountains." Plant Species Biology 16(3): 219-230.
- 802 Knoch, T. R., S. H. Faeth, et al. (1993). "Endophytic fungi alter foraging and dispersal by desert seed-harvesting ants." Oecologia 95(4): 470-473.
- 804 Kolb, A., J. Ehrlén, et al. (2007). "Ecological and evolutionary consequences of spatial and temporal variation in pre-dispersal seed predation." Perspectives in Plant Ecology, Evolution and Systematics 9(2): 79-100.
- 807 Koniak, G. and I. Noy-Meir. (2009). "A hierarchical, multi-scale, management-responsive model of Mediterranean vegetation dynamics." Ecological Modelling 220(8): 1148-1158.
- 809 Kos, M. and P. Poschlod. (2007). "Seeds use temperature cues to ensure germination under nurse-plant shade in Xeric Kalahari Savannah." Annals of Botany 99(4): 667-675.
- 811 Krannitz, P. G. (1996). "Reproductive ecology of *Dryas integrifolia* in the high Arctic semi-desert." Canadian Journal of Botany 74(9): 1451-1460.
- 813 Kreft, H., W. Jetz, et al. (2010). "Contrasting environmental and regional effects on global pteridophyte and seed plant diversity." Ecography 33(2): 408-419.
- 815 Kuechly, H. U., J. S. Mueller, et al. (2011). "Rodent-mediated dispersal of *Acacia* seeds in Kalahari savannah rangelands - implications for bush encroachment." African Journal of Ecology 49(1): 119-121.

- 818 Kunz, B. K. and K. E. Linsenmair. (2010). "Fruit Traits in Baboon Diet: A Comparison with Plant  
819 Species Characteristics in West Africa." *Biotropica* 42(3): 363-371.
- 820 Kunz, B. K. and K. E. Linsenmair. (2008). "The role of the olive baboon (*Papio anubis*,  
821 *Cercopithecidae*) as seed disperser in a savanna-forest mosaic of West Africa." *Journal of  
822 Tropical Ecology* 24(3): 235-246.
- 823 Lázaro, A. and A. Traveset. (2009). "Does the spatial variation in selective pressures explain  
824 among-site differences in seed mass? A test with *Buxus balearica*." *Evolutionary Ecology* 23(6):  
825 847-865.
- 826 Lôbo, D., M. Tabarelli, et al. (2011). "Ecology, behavior and bionomics relocation of croton  
827 sonderianus (euphorbiaceae) seeds by pheidole fallax mayr (formicidae): A case of post-  
828 dispersal seed protection by ants?" *Neotropical Entomology* 40(4): 440-444.
- 829 Lönn, E. (1999). "Revision of the three Boraginaceae genera *Echiodhilon*, *Ogastemma* and  
830 *Sericostoma*." *Botanical Journal of the Linnean Society* 130(3): 185-259.
- 831 Lü, C., X. Zhang, et al. (2012). "Characteristics of seed rain of *Haloxylon ammodendron* in  
832 southeastern edge of Junggar Basin." *Shengtai Xuebao/ Acta Ecologica Sinica* 32(19): 6270-  
833 6278.
- 834 López-Bao, J. V. and J. P. González-Varo. (2011). "Frugivory and spatial patterns of seed  
835 deposition by carnivorous mammals in anthropogenic landscapes: A multi-scale approach."  
836 *PLoS ONE* 6(1).
- 837 López-Barrera, F., R. H. Manson, et al. (2007). "Effects of varying forest edge permeability on  
838 seed dispersal in a neotropical montane forest." *Landscape Ecology* 22(2): 189-203.
- 839 López-Barrera, F., A. Newton, et al. (2005). "Edge effects in a tropical montane forest mosaic:  
840 Experimental tests of post-dispersal acorn removal." *Ecological Research* 20(1): 31-40.
- 841 López-Darias, M. and M. Nogales. (2008). "Effects of the invasive Barbary ground squirrel  
842 (*Atlantoxerus getulus*) on seed dispersal systems of insular xeric environments." *Journal of Arid  
843 Environments* 72(6): 926-939.
- 844 Laborde, J. and K. Thompson. (2009). "Post-dispersal fate of hazel (*Corylus avellana*) nuts and  
845 consequences for the management and conservation of scrub-grassland mosaics." *Biological  
846 Conservation* 142(5): 974-981.
- 847 Lack, A. J. and Q. O. N. Kay. (1987). "Genetic structure, gene flow and reproductive ecology in  
848 sand-dune populations of *Polygala vulgaris*." *Journal of Ecology* 75(1): 259-276.
- 849 Lamont, B. B. and T. He. (2012). "Fire-adapted Gondwanan Angiosperm floras evolved in the  
850 Cretaceous." *BMC Evolutionary Biology* 12(1).
- 851 Lander, T. A., D. H. Boshier, et al. (2010). "Fragmented but not isolated: Contribution of single  
852 trees, small patches and long-distance pollen flow to genetic connectivity for *Gomortega  
853 keule*, an endangered Chilean tree." *Biological Conservation* 143(11): 2583-2590.

- 854 Landrum, J. V. (2002). "Four succulent families and 40 million years of evolution and  
855 adaptation to xeric environments: What can stem and leaf anatomical characters tell us about  
856 their phylogeny?" *Taxon* 51(3): 463-473.
- 857 Larson, D. L. (1996). "Seed dispersal by specialist versus generalist foragers: The plant's  
858 perspective." *Oikos* 76(1): 113-120.
- 859 Lavi, A., A. Perevolotsky, et al. (2005). "Invasion of *Pinus halepensis* from plantations into  
860 adjacent natural habitats." *Applied Vegetation Science* 8(1): 85-92.
- 861 Lavorel, S., M. S. Smith, et al. (1999). "Spread of mistletoes (*Amyema preissii*) in fragmented  
862 Australian woodlands: A simulation study." *Landscape Ecology* 14(2): 147-160.
- 863 Lawes, R. A. and A. C. Grice. (2007). "Controlling infestations of *Parkinsonia aculeata* in a  
864 riparian zone at the landscape scale." *Austral Ecology* 32(3): 287-293.
- 865 Leal, I. R., R. Wirth, et al. (2007). "Seed dispersal by ants in the semi-arid caatinga of north-east  
866 Brazil." *Annals of Botany* 99(5): 885-894.
- 867 Lebrija-Trejos, E., M. C. C. Lobato, et al. (2011). "Reproductive traits and seed dynamics at two  
868 environmentally contrasting annual plant communities: From fieldwork to theoretical  
869 expectations." *Israel Journal of Ecology and Evolution* 57(1-2): 73-90.
- 870 Leimu, R., K. Syrjänen, et al. (2002). "Pre-dispersal seed predation in *Primula veris*: Among-  
871 population variation in damage intensity and selection on flower number." *Oecologia* 133(4):  
872 510-516.
- 873 Letnic, M., C. R. Dickman, et al. (2000). "Bet-hedging and germination in the Australian arid  
874 zone shrub *Acacia ligulata*." *Austral Ecology* 25(4): 368-374.
- 875 Li, F. R. (2008). "Presence of shrubs influences the spatial pattern of soil seed banks in desert  
876 herbaceous vegetation." *Journal of Vegetation Science* 19(4): 537-548.
- 877 Li, F. R., W. Z. Zhao, et al. (2009). "Seed distribution of four co-occurring grasses around  
878 *Artemisia halodendron* shrubs in a sandy habitat." *Acta Oecologica* 35(3): 444-451.
- 879 Li, N., G. Feng, et al. (2007). "Characteristics and dynamics of the soil seed bank at the north  
880 edge of Taklimakan Desert." *Science in China, Series D: Earth Sciences* 50(SUPPL. 1): 122-127.
- 881 Li, X., D. Jiang, et al. (2006). "Annual plant species in arid and semi-arid desert regions: A  
882 review." *Chinese Journal of Ecology* 25(7): 851-856.
- 883 Li, X., D. Jiang, et al. (2008). "Annual plants in arid and semi-arid desert regions." *Frontiers of  
884 Biology in China* 3(3): 259-264.
- 885 Lian, C., R. Oishi, et al. (2003). "Genetic structure and reproduction dynamics of *Salix reinii*  
886 during primary succession on Mount Fuji, as revealed by nuclear and chloroplast microsatellite  
887 analysis." *Molecular Ecology* 12(3): 609-618.

- 888 Lichstein, J. J., H. R. Grau, et al. (2004). "Recruitment limitation in secondary forests dominated  
889 by an exotic tree." *Journal of Vegetation Science* 15(6): 721-728.
- 890 Lin, C. Y., T. L. Yang, et al. (2012). Phenological observation and biomorphological characters of  
891 *Allium roborowskianum* from Xinjiang China. *Acta Horticulturae*. 969: 297-302.
- 892 Liu, B., J. Su, et al. (2013). "Anthropogenic Halo Disturbances Alter Landscape and Plant  
893 Richness: A Ripple Effect." *PLoS ONE* 8(2).
- 894 Liu, H., M. Song, et al. (2011). "A comparative study of seed germination traits of 52 species  
895 from Gurbantunggut Desert and its peripheral zone." *Shengtai Xuebao/ Acta Ecologica Sinica*  
896 31(15): 4308-4317.
- 897 Liu, J. and P. S. Ashton. (1998). "FORRMOSAIC: An individual-based spatially explicit model for  
898 simulating forest dynamics in landscape mosaics." *Ecological Modelling* 106(2-3): 177-200.
- 899 Liu, J. and P. S. Ashton. (1999). "Simulating effects of landscape context and timber harvest on  
900 tree species diversity." *Ecological Applications* 9(1): 186-201.
- 901 Liu, J., Z. Chen, et al. (2002). "Molecular evidence for the sister relationship of the eastern Asia-  
902 North American intercontinental species pair in the *Podophyllum* group (Berberidaceae)." *Botanical Bulletin of Academia Sinica* 43(2): 147-154.
- 904 Liu, Y., D. Zhang, et al. (2010). "Fine-scale genetic structure of *Eremosparton songoricum* and  
905 implication for conservation." *Journal of Arid Land* 2(1): 26-32.
- 906 Liu, Y., Y. Zhang, et al. (2013). "Diaspore characteristics and ecological adaptation of *Bromus*  
907 *tectorum* L. from different distribution regions." *Journal of Arid Land* 5(3): 310-323.
- 908 Liu, Y. F., Y. Wei, et al. (2009). "Germination characteristics and ecological adaptation of  
909 dimorphic seeds of *borszczowia aralocaspica*." *Shengtai Xuebao/ Acta Ecologica Sinica* 29(12):  
910 6609-6614.
- 911 Liu, Z., D. Jiang, et al. (2003). "Relationship between plant reproductive strategy and  
912 disturbance." *Chinese Journal of Applied Ecology* 14(3): 418-422.
- 913 Liu, Z., D. Jiang, et al. (2003). "Relationships between plant reproductive strategy and  
914 disturbance." Ying yong sheng tai xue bao = The journal of applied ecology / Zhongguo sheng  
915 tai xue xue hui, Zhongguo ke xue yuan Shenyang ying yong sheng tai yan jiu suo zhu ban 14(3):  
916 418-422.
- 917 Liu, Z., J. Zhu, et al. (2012). "Arrival vs. retention of seeds in bare patches in the semi-arid  
918 desertified grassland of Inner Mongolia, northeastern China." *Ecological Engineering* 49: 153-  
919 159.
- 920 Loayza, A. P., B. A. Loiselle, et al. (2011). "Context-dependent recruitment of *Guettarda*  
921 *viburnoides* in a Neotropical forest-savanna mosaic." *American Journal of Botany* 98(8): 1317-  
922 1326.

- 923 Loehle, C. (2000). "Strategy space and the disturbance spectrum: A life-history model for tree  
924 species coexistence." *American Naturalist* 156(1): 14-33.
- 925 Loik, M. E. and S. P. Redar. (2003). "Microclimate, freezing tolerance, and cold acclimation  
926 along an elevation gradient for seedlings of the Great Basin Desert shrub, *Artemisia*  
927 *tridentata*." *Journal of Arid Environments* 54(4): 769-782.
- 928 Longland, W. S. and S. L. Bateman. (2002). "Viewpoint: The ecological value of shrub islands on  
929 disturbed sagebrush rangelands." *Journal of Range Management* 55(6): 571-575.
- 930 Longland, W. S., S. H. Jenkins, et al. (2001). "Seedling recruitment in *Oryzopsis hymenoides*:  
931 Are desert granivores mutualists or predators?" *Ecology* 82(11): 3131-3148.
- 932 Longland, W. S. and S. M. Ostoja. (2013). "Ecosystem Services from Keystone Species:  
933 Diversionary Seeding and Seed-Caching Desert Rodents Can Enhance Indian Ricegrass Seedling  
934 Establishment." *Restoration Ecology* 21(2): 285-291.
- 935 Lopes, C. G. R., E. M. N. Ferraz, et al. (2012). "Forest succession and distance from preserved  
936 patches in the Brazilian semiarid region." *Forest Ecology and Management* 271: 115-123.
- 937 Lorts, C. M., T. Briggeman, et al. (2008). "Evolution of fruit types and seed dispersal: A  
938 phylogenetic and ecological snapshot." *Journal of Systematics and Evolution* 46(3): 396-404.
- 939 LososovÁj, Z., M. ChytrÁ½, et al. (2006). "Patterns of plant traits in annual vegetation of man-  
940 made habitats in central Europe." *Perspectives in Plant Ecology, Evolution and Systematics*  
941 8(2): 69-81.
- 942 Lotan, A. and I. Izhaki. (2013). "Could abiotic environment shape fleshy fruit traits? A field  
943 study of the desert shrub *Ochradenus baccatus*." *Journal of Arid Environments* 92: 34-41.
- 944 Loureiro, I., M. C. Escorial, et al. (2007). "Wheat pollen dispersal under semiarid field  
945 conditions: Potential outcrossing with *Triticum aestivum* and *Triticum turgidum*." *Euphytica*  
946 156(1-2): 25-37.
- 947 Lu, J., D. Tan, et al. (2010). "Fruit and seed heteromorphism in the cold desert annual  
948 ephemeral *Diptychocarpus strictus* (Brassicaceae) and possible adaptive significance." *Annals*  
949 of Botany
- 105(6): 999-1014.
- 950 Lu, J. J., D. Y. Tan, et al. (2012). "Phenotypic plasticity and bet-hedging in a heterocarpic winter  
951 annual/spring ephemeral cold desert species of Brassicaceae." *Oikos* 121(3): 357-366.
- 952 Lu, J. J., D. Y. Tan, et al. (2013). "Trade-offs between seed dispersal and dormancy in an amphi-  
953 basicarpic cold desert annual." *Annals of Botany* 112(9): 1815-1827.
- 954 Lush, W. M. and L. T. Evans. (1981). "The domestication and improvement of cowpeas (*Vigna*  
955 *unguiculata* (L.) Walp.)." *Euphytica* 30(3): 579-587.
- 956 Lush, W. M., L. T. Evans, et al. (1980). "Environmental adaptation of wild and domesticated  
957 cowpeas (*Vigna unguiculata* (L.) walp.)." *Field Crops Research* 3(C): 173-187.

- 958 Luskin, M. S. (2010). "Flying foxes prefer to forage in farmland in a tropical dry forest landscape  
959 mosaic in Fiji." *Biotropica* 42(2): 246-250.
- 960 Lyaruu, H. V. M. (1999). "Seed rain and its role in the recolonization of degraded hill slopes in  
961 semi-arid central Tanzania." *African Journal of Ecology* 37(2): 137-148.
- 962 Ma, H., Z. Liang, et al. (2012). "Advances in research on the seed bank of a saline-alkali  
963 meadow in the Songnen plain." *Shengtai Xuebao/ Acta Ecologica Sinica* 32(13): 4261-4269.
- 964 Ma, J., K. Li, et al. (2006). "Regeneration of *Acacia glauca* and *Leucaena leucacephala*  
965 plantations in Yuanmou dry and hot valley." *Chinese Journal of Applied Ecology* 17(8): 1365-  
966 1369.
- 967 Ma, J., Z. Liu, et al. (2010). "Aerial seed bank in *Artemisia* species: How it responds to sand  
968 mobility." *Trees - Structure and Function* 24(3): 435-441.
- 969 Ma, W. B., X. J. Zhao, et al. (2010). "Nutlet dimorphism in individual flowers of two cold desert  
970 annual *Lappula* species (Boraginaceae): Implications for escape by offspring in time and space."  
971 *Plant Ecology* 209(2): 361-374.
- 972 MacRaild, L. M., J. Q. Radford, et al. (2010). "Non-linear effects of landscape properties on  
973 mistletoe parasitism in fragmented agricultural landscapes." *Landscape Ecology* 25(3): 395-  
974 406.
- 975 Maddox, J. C. and S. Carlquist. (1985). "Wind dispersal in Californian desert plants:  
976 experimental studies and conceptual considerations." *Aliso* 11(1): 77-96.
- 977 Magrach, A., A. R. Larrinaga, et al. (2011). "Changes in patch features may exacerbate or  
978 compensate for the effect of habitat loss on forest bird populations." *PLoS ONE* 6(6).
- 979 Magrach, A., L. Santamaría, et al. (2013). "Forest edges show contrasting effects on an austral  
980 mistletoe due to differences in pollination and seed dispersal." *Journal of Ecology* 101(3): 713-  
981 721.
- 982 Mahoney, J. M. and S. B. Rood. (1998). "Streamflow requirements for cottonwood seedling  
983 recruitment-An integrative model." *Wetlands* 18(4): 634-645.
- 984 Malcolm, C. O. E. (1998). "Some aspects of the interaction between mammalian herbivores  
985 and *Acacia eriobola* e. mey." *Transactions of the Royal Society of South Africa* 53(2): 141-147.
- 986 Mandujano, M. D. C., J. Golubov, et al. (1997). "Dormancy and endozoochorous dispersal of  
987 *Opuntia rastrera* seeds in the southern Chihuahuan Desert." *Journal of Arid Environments*  
988 36(2): 259-266.
- 989 Manzaneda, A. J., P. J. Rey, et al. (2007). "Geographic and temporal variation in the ant-seed  
990 dispersal assemblage of the perennial herb *Helleborus foetidus* L. (Ranunculaceae)." *Biological  
991 Journal of the Linnean Society* 92(1): 135-150.

- 992 Manzano, P., F. M. Azcárate, et al. (2010). "Are ecologists blind to small things? The missed  
993 stories on non-tropical seed predation on feces." *Oikos* 119(10): 1537-1545.
- 994 Mao, K., G. Hao, et al. (2010). "Diversification and biogeography of Juniperus (Cupressaceae):  
995 Variable diversification rates and multiple intercontinental dispersals." *New Phytologist* 188(1):  
996 254-272.
- 997 Marini-Filho, O. J. (1999). "Distribution, composition, and dispersal of ant gardens and tending  
998 ants in three kinds of central Amazonian habitats." *Tropical Zoology* 12(2): 289-296.
- 999 Marlette, G. M. and J. E. Anderson. (1986). "Seed banks and propagule dispersal in crested  
1000 wheatgrass stands." *Journal of Applied Ecology* 23(1): 161-175.
- 1001 Marone, L., V. R. Cueto, et al. (2004). "Soil seed bank composition over desert microhabitats:  
1002 Patterns and plausible mechanisms." *Canadian Journal of Botany* 82(12): 1809-1816.
- 1003 Marone, L., M. E. Horro, et al. (2000). "Post-dispersal fate of seeds in the Monte desert of  
1004 Argentina: Patterns of germination in successive wet and dry years." *Journal of Ecology* 88(6):  
1005 940-949.
- 1006 Marone, L., B. E. Rossi, et al. (1998). "Timing and spatial patterning of seed dispersal and  
1007 redistribution in a South American warm desert." *Plant Ecology* 137(2): 143-150.
- 1008 Martínez Pastur, G. J., R. Soler Esteban, et al. (2013). "Variable retention harvesting influences  
1009 biotic and abiotic drivers of regeneration in *Nothofagus pumilio* southern Patagonian forests."  
1010 *Forest Ecology and Management* 289: 106-114.
- 1011 Martínez-Berdeja, A., N. Pietrasiak, et al. (2013). "Living where others dare not: Microhabitat  
1012 distribution in *Chorizanthe rigida*, a serotinous desert annual." *Journal of Arid Environments*  
1013 97: 120-126.
- 1014 Martínez-Duro, E., P. Ferrandis, et al. (2009). "Factors controlling the regenerative cycle of  
1015 *Thymus funkii* subsp. *funkii* in a semi-arid gypsum steppe: A seed bank dynamics perspective."  
1016 *Journal of Arid Environments* 73(3): 252-259.
- 1017 Martínez-Garza, C. and H. F. Howe. (2003). "Restoring tropical diversity: Beating the time tax  
1018 on species loss." *Journal of Applied Ecology* 40(3): 423-429.
- 1019 Martin, E. A., M. Viano, et al. (2012). "Maintenance of bird functional diversity in a traditional  
1020 agroecosystem of Madagascar." *Agriculture, Ecosystems and Environment* 149: 1-9.
- 1021 Marussich, W. A. (2006). "Testing myrmecochory from the ant's perspective: The effects of  
1022 *Datura wrightii* and *D. discolor* on queen survival and brood production in *Pogonomyrmex*  
1023 *californicus*." *Insectes Sociaux* 53(4): 403-411.
- 1024 Matías, L., I. Mendoza, et al. (2009). "Consistent pattern of habitat and species selection by  
1025 post-dispersal seed predators in a Mediterranean mosaic landscape." *Plant Ecology* 203(1):  
1026 137-147.

- 1027 Matías, L., R. Zamora, et al. (2010). "Seed Dispersal Patterns by Large Frugivorous Mammals in  
1028 a Degraded Mosaic Landscape." *Restoration Ecology* 18(5): 619-627.
- 1029 May, F., I. Giladi, et al. (2013). "Metacommunity, mainland-island system or island  
1030 communities? Assessing the regional dynamics of plant communities in a fragmented  
1031 landscape." *Ecography* 36(7): 842-853.
- 1032 Mayor, M. D., R. M. Bóo, et al. (2003). "Seasonal variation of the soil seed bank of grasses in  
1033 central Argentina as related to grazing and shrub cover." *Journal of Arid Environments* 53(4):  
1034 467-477.
- 1035 McAuliffe, J. R. and T. R. Van Devender. (1998). "A 22,000-year record of vegetation change in  
1036 the north-central Sonoran Desert." *Palaeogeography, Palaeoclimatology, Palaeoecology* 141(3-  
1037 4): 253-275.
- 1038 McCay, T. S. and D. H. McCay. (2009). "Processes regulating the invasion of European  
1039 buckthorn (*Rhamnus cathartica*) in three habitats of the northeastern United States."  
1040 *Biological Invasions* 11(8): 1835-1844.
- 1041 McClenaghan Jr, L. R. and A. C. Beauchamp. (1986). "Low genic differentiation among isolated  
1042 populations of the California fan palm (*Washingtonia filifera*)."*Evolution* 40(2): 315-322.
- 1043 Medel, R., C. Botto-Mahan, et al. (2002). "Quantitative natural history of a host-parasite  
1044 relationship: The *Tristerix*-cactus system in semiarid Chile." *Revista Chilena de Historia Natural*  
1045 75(1): 127-140.
- 1046 Meers, T. L., T. L. Bell, et al. (2010). "Do generalisations of global trade-offs in plant design  
1047 apply to an Australian sclerophyllous flora?" *Australian Journal of Botany* 58(4): 257-270.
- 1048 Melo, F. P. L., B. Rodriguez-Herrera, et al. (2009). "Small Tent-Roosting Bats Promote Dispersal  
1049 of Large-Seeded Plants in a Neotropical Forest." *Biotropica* 41(6): 737-743.
- 1050 Mendoza, I., L. Gómez-Aparicio, et al. (2009). "Recruitment limitation of forest communities in  
1051 a degraded Mediterranean landscape." *Journal of Vegetation Science* 20(2): 367-376.
- 1052 Merwin, L., T. He, et al. (2012). "Low Rate of Between-Population Seed Dispersal Restricts  
1053 Genetic Connectivity and Metapopulation Dynamics in a Clonal Shrub." *PLoS ONE* 7(11).
- 1054 Meulebrouck, K., K. Verheyen, et al. (2009). "Metapopulation viability of an endangered  
1055 holoparasitic plant in a dynamic landscape." *Ecography* 32(6): 1040-1050.
- 1056 Meyer, S. E. and P. S. Allen. (1999). "Ecological genetics of seed germination regulation in  
1057 *Bromus tectorum* L. I. Phenotypic variance among and within populations." *Oecologia* 120(1):  
1058 27-34.
- 1059 Meyer, S. E. and P. S. Allen. (1999). "Ecological genetics of seed germination regulation in  
1060 *Bromus tectorum* L. II. Reaction norms in response to a water stress gradient imposed during  
1061 seed maturation." *Oecologia* 120(1): 35-43.

- 1062 Meyer, S. E., P. S. Allen, et al. (1997). "Seed germination regulation in *Bromus tectorum*  
1063 (*Poaceae*) and its ecological significance." *Oikos* 78(3): 475-485.
- 1064 Meyer, S. E., J. Beckstead, et al. (2008). "A seed bank pathogen causes seedborne disease:  
1065 *Pyrenophora semeniperda* on undispersed grass seeds in western North America." *Canadian*  
1066 *Journal of Plant Pathology* 30(4): 525-533.
- 1067 Meyer, S. E., S. L. Carlson, et al. (1998). "Seed germination regulation and field seed bank  
1068 carryover in shadscale (*Atriplex confertifolia*: *Chenopodiaceae*)." *Journal of Arid Environments*  
1069 38(2): 255-267.
- 1070 Meyer, S. E., S. G. Kitchen, et al. (1995). "Seed germination timing patterns in Intermountain  
1071 *Penstemon* (*Scrophulariaceae*)." *American Journal of Botany* 82(3): 377-389.
- 1072 Meyer, S. E., D. Quinney, et al. (2005). "A life history study of the snake river plains endemic  
1073 *Lepidium papilliferum* (*Brassicaceae*)." *Western North American Naturalist* 65(1): 11-23.
- 1074 Milesi, F. A. and J. Lopez De Casenave. (2004). "Unexpected relationships and valuable  
1075 mistakes: Non-myrmecochorous *Prosopis* dispersed by messy leafcutting ants in harvesting  
1076 their seeds." *Austral Ecology* 29(5): 558-567.
- 1077 Milton, S. J. and W. R. J. Dean. (2010). "Plant invasions in arid areas: Special problems and  
1078 solutions: A South African perspective." *Biological Invasions* 12(12): 3935-3948.
- 1079 Milton, S. J. and W. R. J. Dean. (2001). "Seeds dispersed in dung of insectivores and herbivores  
1080 in semi-arid southern Africa." *Journal of Arid Environments* 47(4): 465-483.
- 1081 Milton, S. J., W. R. J. Dean, et al. (1998). "Dispersal of seeds as nest material by the cactus  
1082 wren." *Southwestern Naturalist* 43(4): 449-452.
- 1083 Milton, S. J., W. R. Siegfried, et al. (1990). "The distribution of epizoochoric plant species: a clue  
1084 to the prehistoric use of arid Karoo rangelands by large herbivores." *Journal of Biogeography*  
1085 17(1): 25-34.
- 1086 Milton, S. J., J. R. U. Wilson, et al. (2007). "Invasive alien plants infiltrate bird-mediated shrub  
1087 nucleation processes in arid savanna." *Journal of Ecology* 95(4): 648-661.
- 1088 Mittelbach, G. G. and K. L. Gross. (1984). "Experimental studies of seed predation in old-fields."  
1089 *Oecologia* 65(1): 7-13.
- 1090 Moles, A. T., D. I. Warton, et al. (2003). "Do small-seeded species have higher survival through  
1091 seed predation than large-seeded species?" *Ecology* 84(12): 3148-3161.
- 1092 Moloney, K. A. and S. A. Levin. (1996). "The effects of disturbance architecture on landscape-  
1093 level population dynamics." *Ecology* 77(2): 375-394.
- 1094 Mondo, P., K. D. M. Mattson, et al. (2010). "The effect of shrubs on the establishment of an  
1095 endangered perennial (*Asclepias curtissii*) endemic to Florida scrub." *Southeastern Naturalist*  
1096 9(2): 259-274.

- 1097 Montesinos, D., M. Verdú, et al. (2007). "Moms are better nurses than dads: Gender biased  
1098 self-facilitation in a dioecious *Juniperus* tree." *Journal of Vegetation Science* 18(2): 271-280.
- 1099 Montiel, S. and C. Montaña. (2000). "Vertebrate frugivory and seed dispersal of a Chihuahuan  
1100 Desert cactus." *Plant Ecology* 146(2): 221-229.
- 1101 Montiel, S. and C. Montaña. (2003). "Seed bank dynamics of the desert cactus *Opuntia rastrera*  
1102 in two habitats from the Chihuahuan Desert." *Plant Ecology* 166(2): 241-248.
- 1103 Moore, M. J., A. Tye, et al. (2006). "Patterns of long-distance dispersal in *Tiquilia* subg. *Tiquilia*  
1104 (Boraginaceae): Implications for the origins of amphitropical disjuncts and Galápagos Islands  
1105 endemics." *American Journal of Botany* 93(8): 1163-1177.
- 1106 Moore, P. D. (2002). "Plant ecology: Express delivery by bat." *Nature* 420(6911): 34-35.
- 1107 Morgan, J. W. and T. P. O'Brien. (2012). "The 'inch flora': Some observations on the  
1108 morphology and seed biology of annual plant species common in semi-arid woodlands of  
1109 western Victoria." *Victorian Naturalist* 129(1): 4-9.
- 1110 Moury, B. and E. Verdin. (2012). Viruses of Pepper Crops in the Mediterranean Basin. A  
1111 Remarkable Stasis. *Advances in Virus Research*. 84: 127-162.
- 1112 Mouw, J. E. B., J. L. Chaffin, et al. (2013). "Recruitment and successional dynamics diversify the  
1113 shifting habitat mosaic of an alaskan floodplain." *River Research and Applications* 29(6): 671-  
1114 685.
- 1115 Mullahey, J. J., D. G. Shilling, et al. (1998). "Invasion of tropical soda apple (*Solanum viarum*)  
1116 into the U.S.: Lessons learned." *Weed Technology* 12(4): 733-736.
- 1117 Mummenhoff, K., H. Brüggemann, et al. (2001). "Chloroplast DNA phylogeny and biogeography  
1118 of *Lepidium* (Brassicaceae)." *American Journal of Botany* 88(11): 2051-2063.
- 1119 Murdoch, J. D., S. Buyandelger, et al. (2009). "Patterns of seed occurrence in corsac and red fox  
1120 diets in Mongolia." *Journal of Arid Environments* 73(3): 381-384.
- 1121 Murillo, N., P. Laterra, et al. (2007). "Post-dispersal granivory in a tall-tussock grassland: A  
1122 positive feedback mechanism of dominance?" *Journal of Vegetation Science* 18(6): 799-806.
- 1123 Murphy, H. T. and J. Lovett-Doust. (2004). "Context and connectivity in plant metapopulations  
1124 and landscape mosaics: Does the matrix matter?" *Oikos* 105(1): 3-14.
- 1125 Murphy, S. R., N. Reid, et al. (1993). "Differential passage time of mistletoe fruits through the  
1126 gut of honeyeaters and flowerpeckers: effects on seedling establishment." *Oecologia* 93(2):  
1127 171-176.
- 1128 Mworia, J. K., J. I. Kinyamario, et al. (2011). "Patterns of seed dispersal and establishment of  
1129 the invader *Prosopis juliflora* in the upper floodplain of Tana River, Kenya." *African Journal of  
1130 Range and Forage Science* 28(1): 35-41.

- 1131 Nams, V. O. (2011). "Emergent properties of patch shapes affect edge permeability to  
1132 animals." PLoS ONE 6(7).
- 1133 Nano, C. E. M., A. E. Bowland, et al. (2013). "Factors controlling regeneration in a rare desert  
1134 tree Acacia peuce: Limits to soil seed bank accumulation in time and space." Journal of Arid  
1135 Environments 90: 114-122.
- 1136 Núñez-Ávila, M. C., M. Uriarte, et al. (2013). "Decomposing recruitment limitation for an avian-  
1137 dispersed rain forest tree in an anciently fragmented landscape." Journal of Ecology 101(6):  
1138 1439-1448.
- 1139 Naqvi, H. H. and G. P. Hanson. (1982). "Germination and growth inhibitors in guayule ( *Parthenium argentatum* Gray) chaff and their possible influence in seed dormancy." American  
1140 Journal of Botany 69(6): 985-989.
- 1141
- 1142 Naranjo, M. E., C. Rengifo, et al. (2003). "Effect of ingestion by bats and birds on seed  
1143 germination of *Stenocereus griseus* and *Subpilocereus repandus* (Cactaceae)." Journal of  
1144 Tropical Ecology 19(1): 19-25.
- 1145 Narita, K. (1998). "Effects of seed release timing on plant life-history and seed production in a  
1146 population of a desert annual, *Blepharis sindica* (Acanthaceae)." Plant Ecology 136(2): 195-203.
- 1147 Narita, K. (2003). "Size-specific carbon allocation, seed production, and seed dispersal patterns  
1148 in a desert lignified annual, *Blepharis sindica* (Acanthaceae)." Ecoscience 10(3): 327-333.
- 1149 Nasri-Ayachi, M. B. and M. A. Nabli. (2009). Floral biology study of *Ziziphus lotus* L. Acta  
1150 Horticulturae. 840: 337-342.
- 1151 Nassar, J. M., J. L. Hamrick, et al. (2003). "Population Genetic Structure Of Venezuelan  
1152 Chiropterophilous Columnar Cacti (Cactaceae)." American Journal of Botany 90(11): 1628-  
1153 1637.
- 1154 Navarro, T., C. L. Alados, et al. (2006). "Changes in plant functional types in response to goat  
1155 and sheep grazing in two semi-arid shrublands of SE Spain." Journal of Arid Environments  
1156 64(2): 298-322.
- 1157 Navarro, T., V. Pascual, et al. (2009). "Growth forms, dispersal strategies and taxonomic  
1158 spectrum in a semi-arid shrubland in SE Spain." Journal of Arid Environments 73(1): 103-112.
- 1159 Navie, S. C. and R. W. Rogers. (1997). "The relationship between attributes of plants  
1160 represented in the germinable seed bank and stocking pressure in a semi-arid subtropical  
1161 rangeland." Australian Journal of Botany 45(6): 1055-1071.
- 1162 Ndagurwa, H. G. T., P. J. Mundy, et al. (2012). "Patterns of mistletoe infection in four *Acacia*  
1163 species in a semi-arid southern African savanna." Journal of Tropical Ecology 28(5): 523-526.
- 1164 Ness, J. H. and K. Bressmer. (2005). "Abiotic influences on the behaviour of rodents, ants, and  
1165 plants affect an ant-seed mutualism." Ecoscience 12(1): 76-81.

- 1166 Newsom, L. A. (2006). Paleoenvironmental aspects of the macrophytic plant assemblage from  
1167 page-Ladson. First Floridians and Last Mastodons: The Page-Ladson Site in the Aucilla River:  
1168 181-211.
- 1169 Newsom, L. A. and M. C. Mihlbachler. (2006). Mastodons (*mammut americanum*) diet foraging  
1170 patterns based on analysis of dung deposits. First Floridians and Last Mastodons: The Page-  
1171 Ladson Site in the Aucilla River: 263-331.
- 1172 Nicolai, N. and B. R. Boeken. (2012). "Harvester ants modify seed rain using nest vegetation  
1173 and granivory." *Ecological Entomology* 37(1): 24-32.
- 1174 Nogales, M., C. Nieves, et al. (2006). "Native dispersers induce germination asynchrony in a  
1175 macaronesian endemic plant (*Rubia fruticosa*, Rubiaceae) in xeric environments of the Canary  
1176 Islands." *Journal of Arid Environments* 64(2): 357-363.
- 1177 Oborny, B., Z. Botta-Dukát, et al. (2011). "Population ecology of *Allium ursinum*, a space-  
1178 monopolizing clonal plant." *Acta Botanica Hungarica* 53(3-4): 371-388.
- 1179 Odee, D. W., A. Telford, et al. (2012). "Plio-Pleistocene history and phylogeography of *Acacia*  
1180 *senegal* in dry woodlands and savannahs of sub-Saharan tropical Africa: Evidence of early  
1181 colonisation and recent range expansion." *Heredity* 109(6): 372-382.
- 1182 Oesterheld, M. and M. Oyarzábal. (2004). "Grass-to-grass protection from grazing in a semi-  
1183 arid steppe. Facilitation, competition, and mass effect." *Oikos* 107(3): 576-582.
- 1184 Olano, J. M., I. Caballero, et al. (2012). "Soil seed bank recovery occurs more rapidly than  
1185 expected in semi-arid Mediterranean gypsum vegetation." *Annals of Botany* 109(1): 299-307.
- 1186 Ortiz-Garcia, S., E. Ezcurra, et al. (2005). "Absence of detectable transgenes in local landraces  
1187 of maize in Oaxaca, Mexico (2003-2004)." *Proceedings of the National Academy of Sciences of*  
1188 *the United States of America* 102(35): 12338-12343.
- 1189 Osem, Y., A. Perevolotsky, et al. (2006). "Size traits and site conditions determine changes in  
1190 seed bank structure caused by grazing exclusion in semiarid annual plant communities."  
1191 *Ecography* 29(1): 11-20.
- 1192 Pachepsky, E. and J. M. Levine. (2011). "Density dependence slows invader spread in  
1193 fragmented landscapes." *American Naturalist* 177(1): 18-28.
- 1194 Paice, M. E. R., W. Day, et al. (1998). "A stochastic simulation model for evaluating the concept  
1195 of patch spraying." *Weed Research* 38(5): 373-388.
- 1196 Pan, X. L., D. Y. Zhang, et al. (2009). "Effects of short-term low temperatures on photosystem II  
1197 function of samara and leaf of Siberian maple (*Acer ginnala*) and subsequent recovery."  
1198 *Journal of Arid Land* 1(1): 57-63.
- 1199 Papafotiou, M., E. Kanellou, et al. (2010). Alternative practices for vegetation management in  
1200 archaeological sites - The case of Eleusis. *Acta Horticulturae*. 881: 879-883.

- 1201 Parolin, P. (2006). "Ombrohydrochory: Rain-operated seed dispersal in plants - With special  
1202 regard to jet-action dispersal in Aizoaceae." *Flora: Morphology, Distribution, Functional*  
1203 *Ecology of Plants* 201(7): 511-518.
- 1204 Paulsen, T. R., L. Colville, et al. (2013). "Physical dormancy in seeds: A game of hide and seek?"  
1205 *New Phytologist* 198(2): 496-503.
- 1206 Pavarese, G., V. Tranchida-Lombardo, et al. (2011). "Where do Sardinian orchids come from: A  
1207 putative African origin for the insular population of *Platanthera bifolia* var. *kuenkelei*?"  
1208 *Botanical Journal of the Linnean Society* 167(4): 466-475.
- 1209 Peakall, R., I. Oliver, et al. (1993). "Genetic diversity in an ant-dispersed chenopod *Sclerolaena*  
1210 *diacantha*." *Australian Journal of Ecology* 18(2): 171-179.
- 1211 Pearce, C. M. and D. G. Smith. (2003). "Saltcedar: Distribution, abundance, and dispersal  
1212 mechanisms, northern Montana, USA." *Wetlands* 23(2): 215-228.
- 1213 Pearson, K. M. and T. C. Theimer. (2004). "Seed-caching responses to substrate and rock cover  
1214 by two *Peromyscus* species: Implications for pinyon pine establishment." *Oecologia* 141(1): 76-  
1215 83.
- 1216 Pellissier, V., L. Bergès, et al. (2013). "Understorey plant species show long-range spatial  
1217 patterns in forest patches according to distance-to-edge." *Journal of Vegetation Science* 24(1):  
1218 9-24.
- 1219 Pendleton, B. K. and S. E. Meyer. (2004). "Habitat-correlated variation in blackbrush  
1220 (*Coleogyne ramosissima*: Rosaceae) seed germination response." *Journal of Arid Environments*  
1221 59(2): 229-243.
- 1222 Pereira, F. and G. Ganade. (2008). "Spread of a Brazilian keystone-species in a landscape  
1223 mosaic." *Forest Ecology and Management* 255(5-6): 1674-1683.
- 1224 Peringer, A. and G. Rosenthal. (2011). "Establishment patterns in a secondary tree line  
1225 ecotone." *Ecological Modelling* 222(17): 3120-3131.
- 1226 Perry, G. L. W. and N. J. Enright. (2007). "Contrasting outcomes of spatially implicit and  
1227 spatially explicit models of vegetation dynamics in a forest-shrubland mosaic." *Ecological*  
1228 *Modelling* 207(2-4): 327-338.
- 1229 Peters, D. P. C. (2002). "Plant species dominance at a grassland-shrubland ecotone: An  
1230 individual-based gap dynamics model of herbaceous and woody species." *Ecological Modelling*  
1231 152(1): 5-32.
- 1232 Peters, D. P. C., J. Yao, et al. (2004). "Insights to invasive species dynamics from desertification  
1233 studies." *Weed Technology* 18(SPEC. ISSUE 1): 1221-1225.
- 1234 Peters, D. P. C., J. Yao, et al. (2006). A framework and methods for simplifying complex  
1235 landscapes to reduce uncertainty in predictions. *Scaling and Uncertainty Analysis in Ecology:*  
1236 *Methods and Applications*: 131-146.

- 1237 Peters, E. M., C. Martorell, et al. (2009). "The adaptive value of cued seed dispersal in desert  
1238 plants: Seed retention and release in *Mammillaria pectinifera* (Cactaceae), a small globose  
1239 cactus." *American Journal of Botany* 96(2): 537-541.
- 1240 Pierik, M., J. Van Ruijven, et al. (2010). "Travelling to a former sea floor: Colonization of forests  
1241 by understorey plant species on land recently reclaimed from the sea." *Journal of Vegetation  
1242 Science* 21(1): 167-176.
- 1243 Pluess, A. R. and J. Stöcklin. (2004). "Population genetic diversity of the clonal plant *Geum  
1244 reptans* (Rosaceae) in the Swiss Alps." *American Journal of Botany* 91(12): 2013-2021.
- 1245 Poulsen, J. R., C. J. Clark, et al. (2013). "Ecological erosion of an Afrotropical forest and  
1246 potential consequences for tree recruitment and forest biomass." *Biological Conservation* 163:  
1247 122-130.
- 1248 Prasse, R. and R. Bornkamm. (2000). "Effect of microbiotic soil surface crusts on emergence of  
1249 vascular plants." *Plant Ecology* 150(1-2): 65-75.
- 1250 Pritchard, H. W., M. I. Daws, et al. (2004). "Ecological correlates of seed desiccation tolerance  
1251 in tropical African dryland trees." *American Journal of Botany* 91(6): 863-870.
- 1252 Procheş, Ş., J. R. U. Wilson, et al. (2005). "Landscape corridors: Possible dangers? [4] (multiple  
1253 letters)." *Science* 310(5749): 779-783.
- 1254 Pucheta, E., V. J. García-Muro, et al. (2011). "Invasive potential of the winter grass *Schismus  
1255 barbatus* during the winter season of a predominantly summer-rainfall desert in Central-  
1256 Northern Monte." *Journal of Arid Environments* 75(4): 390-393.
- 1257 Puechagut, P. B., N. Politi, et al. (2013). "A disappearing oasis in the semi-arid Chaco: Deficient  
1258 palm regeneration and establishment." *Journal for Nature Conservation* 21(1): 31-36.
- 1259 Puerta-Piñero, C. (2010). "Intermediate spatial variations on acorn predation shapes Holm oak  
1260 establishment within a Mediterranean landscape context." *Plant Ecology* 210(2): 213-224.
- 1261 Pueyo, Y. and C. L. Alados. (2007). "Effects of fragmentation, abiotic factors and land use on  
1262 vegetation recovery in a semi-arid Mediterranean area." *Basic and Applied Ecology* 8(2): 158-  
1263 170.
- 1264 Pueyo, Y., S. Kéfi, et al. (2010). "The role of reproductive plant traits and biotic interactions in  
1265 the dynamics of semi-arid plant communities." *Theoretical Population Biology* 78(4): 289-297.
- 1266 Pueyo, Y., S. Kefi, et al. (2008). "Dispersal strategies and spatial organization of vegetation in  
1267 arid ecosystems." *Oikos* 117(10): 1522-1532.
- 1268 Pufal, G. and P. Garnock-Jones. (2010). "Hygrochastic capsule dehiscence supports safe site  
1269 strategies in New Zealand alpine *Veronica* (Plantaginaceae)." *Annals of Botany* 106(3): 405-  
1270 412.

- 1271 Pufal, G., K. G. Ryan, et al. (2010). "Hygrochastic capsule dehiscence in New Zealand alpine  
1272 Veronica (Plantaginaceae)." *American Journal of Botany* 97(9): 1413-1423.
- 1273 Pugnaire, F. I. and R. Lázaro. (2000). "Seed bank and understorey species composition in a  
1274 semi-arid environment: The effect of shrub age and rainfall." *Annals of Botany* 86(4): 807-813.
- 1275 Pugnaire, F. I., M. T. Luque, et al. (2006). "Colonization processes in semi-arid Mediterranean  
1276 old-fields." *Journal of Arid Environments* 65(4): 591-603.
- 1277 Ragusa-Netto, J. (2006). "Dry fruits and the abundance of the Blue-and-Yellow Macaw (*Ara*  
1278 *ararauna*) at a cerrado remnant in central Brazil." *Ornitologia Neotropical* 17(4): 491-500.
- 1279 Rahlaa, S. J., S. J. Milton, et al. (2010). "The distribution of invasive *Pennisetum setaceum* along  
1280 roadsides in western South Africa: The role of corridor interchanges." *Weed Research* 50(6):  
1281 537-543.
- 1282 Ramírez, N. (2005). "Plant sexual systems, dichogamy, and herkogamy in the Venezuelan  
1283 Central Plain." *Flora* 200(1): 30-48.
- 1284 Ramos, M. E., A. B. Robles, et al. (2010). "Ley-farming and seed dispersal by sheep: Two  
1285 methods for improving fallow pastures in semiarid Mediterranean environments?" *Agriculture,*  
1286 *Ecosystems and Environment* 137(1-2): 124-132.
- 1287 Randall, J. A. (1993). "Behavioural adaptations of desert rodents (Heteromyidae)." *Animal*  
1288 *Behaviour* 45(2): 263-287.
- 1289 Rasmussen, I. R. and B. Brødsgaard. (1992). "Gene flow inferred from seed dispersal and  
1290 pollinator behaviour compared to DNA analysis of restriction site variation in a patchy  
1291 population of *Lotus corniculatus* L." *Oecologia* 89(2): 277-283.
- 1292 Rawsthorne, J., D. M. Watson, et al. (2012). "The restricted seed rain of a mistletoe specialist."  
1293 *Journal of Avian Biology* 43(1): 9-14.
- 1294 Rehm, E. M. and K. J. Feeley. (2013). "Forest patches and the upward migration of timberline in  
1295 the southern Peruvian Andes." *Forest Ecology and Management* 305: 204-211.
- 1296 Reid, N. (1989). "Dispersal of mistletoes by honeyeaters and flowerpeckers: components of  
1297 seed dispersal quality." *Ecology* 70(1): 137-145.
- 1298 Reid, N. (1990). "Mutualistic interdependence between mistletoes (*Amyema quandang*), and  
1299 spiny-cheeked honeyeaters and mistletoebirds in an arid woodland." *Australian Journal of*  
1300 *Ecology* 15(2): 175-190.
- 1301 Reuter, B. C. (1986). "The habitat, reproductive ecology and host relations of *Orobanche*  
1302 *fasciculata* Nutt. (Orobanchaceae) in Wisconsin." *Bulletin - Torrey Botanical Club* 113(2): 110-  
1303 117.

- 1304 Reynolds, M. B. J., L. A. DeFalco, et al. (2012). "Short seed longevity, variable germination  
1305 conditions, and infrequent establishment events provide a narrow window for *Yucca brevifolia*  
1306 (Agavaceae) recruitment." *American Journal of Botany* 99(10): 1647-1654.
- 1307 Ribas-Fernández, Y., L. Quevedo-Robledo, et al. (2009). "Pre- and post-dispersal seed loss and  
1308 soil seed dynamics of the dominant *Bulnesia retama* (Zygophyllaceae) shrub in a sandy Monte  
1309 desert of western Argentina." *Journal of Arid Environments* 73(1): 14-21.
- 1310 Rice, K. J. and R. N. Mack. (1991). "Ecological genetics of *Bromus tectorum* - III. The  
1311 demography of reciprocally sown populations." *Oecologia* 88(1): 91-101.
- 1312 Rickert, A. A. and S. Fracchia. (2010). "Diplochory in two *Jatropha* (Euphorbiaceae) species of  
1313 the Monte Desert of Argentina." *Austral Ecology* 35(2): 226-235.
- 1314 Rissing, S. W. (1986). "Indirect effects of granivory by harvester ants: plant species composition  
1315 and reproductive increase near ant nests." *Oecologia* 68(2): 231-234.
- 1316 Robson, D. B., J. D. Knight, et al. (2004). "Natural revegetation of hydrocarbon-contaminated  
1317 soil in semi-arid grasslands." *Canadian Journal of Botany* 82(1): 22-30.
- 1318 Rodríguez-Pérez, J., K. Wiegand, et al. (2011). "Interaction between ungulates and bruchid  
1319 beetles and its effect on *Acacia* trees: Modeling the costs and benefits of seed dispersal to  
1320 plant demography." *Oecologia* 167(1): 97-105.
- 1321 Rogers, G., S. Walker, et al. (2005). The role of disturbance in dryland New Zealand: Past and  
1322 present. *Science for Conservation*: 1-106.
- 1323 Rogers, R. W., D. Butler, et al. (1994). "Dispersal of germinable seeds by emus in semi-arid  
1324 Queensland." *Emu* 94(2): 132-134.
- 1325 Roldán, A. I. and J. A. Simonetti. (2001). "Plant-mammal interactions in tropical Bolivian forests  
1326 with different hunting pressures." *Conservation Biology* 15(3): 617-623.
- 1327 Roth, G. A., W. G. Whitford, et al. (2009). "Small mammal herbivory: Feedbacks that help  
1328 maintain desertified ecosystems." *Journal of Arid Environments* 73(1): 62-65.
- 1329 Rotundo, J. L. and M. R. Aguiar. (2004). "Vertical seed distribution in the soil constrains  
1330 regeneration of *Bromus pictus* in a Patagonian steppe." *Journal of Vegetation Science* 15(4):  
1331 515-522.
- 1332 Russell, S. K. and E. W. Schupp. (1998). "Effects of microhabitat patchiness on patterns of seed  
1333 dispersal and seed predation of *Cercocarpus ledifolius* (Rosaceae)." *Oikos* 81(3): 434-443.
- 1334 Rutherford, M. C., L. W. Powrie, et al. (2011). "Early post-fire plant succession in Peninsula  
1335 Sandstone Fynbos: The first three years after disturbance." *South African Journal of Botany*  
1336 77(3): 665-674.

- 1337 Sánchez, A. M., F. M. Azcárate, et al. (2006). "Effects of harvester ants on seed availability and  
1338 dispersal of *Lavandula stoechas* subsp. *pedunculata* in a Mediterranean grassland-scrubland  
1339 mosaic." *Plant Ecology* 185(1): 49-56.
- 1340 Sánchez, A. M. and B. Peco. (2007). "Lack of recruitment in *Lavandula stoechas* subsp.  
1341 *pedunculata*: a case of safe-site limitation." *Acta Oecologica* 31(1): 32-39.
- 1342 Sánchez de la Vega, G. and H. Godínez-Alvarez. (2010). "Effect of gut passage and dung on  
1343 seed germination and seedling growth: donkeys and a multipurpose mesquite from a Mexican  
1344 inter-tropical desert." *Journal of Arid Environments* 74(4): 521-524.
- 1345 Sánchez-Salas, J., E. Jurado, et al. (2012). "Desert species adapted for dispersal and  
1346 germination during floods: Experimental evidence in two *Astrophytum* species (Cactaceae)." *Flora: Morphology, Distribution, Functional Ecology of Plants* 207(10): 707-711.
- 1348 Saco, P. M., G. R. Willgoose, et al. (2007). "Eco-geomorphology of banded vegetation patterns  
1349 in arid and semi-arid regions." *Hydrology and Earth System Sciences* 11(6): 1717-1730.
- 1350 Sadeh, A., H. Guterman, et al. (2009). "Plastic bet-hedging in an amphicarpic annual: An  
1351 integrated strategy under variable conditions." *Evolutionary Ecology* 23(3): 373-388.
- 1352 Samuni-Blank, M., Z. Arad, et al. (2013). "Friend or foe? Disparate plant-animal interactions of  
1353 two congeneric rodents." *Evolutionary Ecology* 27(6): 1069-1080.
- 1354 Samuni-Blank, M., I. Izhaki, et al. (2012). "Intraspecific directed deterrence by the mustard oil  
1355 bomb in a desert plant." *Current Biology* 22(13): 1218-1220.
- 1356 Samuni-Blank, M., I. Izhaki, et al. (2013). "Physiological and behavioural effects of fruit toxins  
1357 on seed-predating versus seed-dispersing congeneric rodents." *Journal of Experimental Biology*  
1358 216(19): 3667-3673.
- 1359 Santana, J., M. Porto, et al. (2012). "Long-term responses of Mediterranean birds to forest fuel  
1360 management." *Journal of Applied Ecology* 49(3): 632-643.
- 1361 Sarmiento, F. O. (1997). "Landscape regeneration by seeds and successional pathways to  
1362 restore fragile tropicanean slopelands." *Mountain Research and Development* 17(3): 239-252.
- 1363 Sawyer, B. (2013). "Sandalwood (*Santalum spicatum*) establishment in the semi-arid and arid  
1364 regions of Western Australia." *Rangeland Journal* 35(1): 109-115.
- 1365 Scarano, F. R., K. T. Ribeiro, et al. (1997). "Plant establishment on flooded and unflooded  
1366 patches of a freshwater swamp forest in southeastern Brazil." *Journal of Tropical Ecology*  
1367 13(6): 793-803.
- 1368 Schöning, C., X. Espadaler, et al. (2004). "Seed predation of the tussock-grass *Stipa tenacissima*  
1369 L. by ants (*Messor* spp.) in southeastern Spain: The adaptive value of trypanocarpy." *Journal of*  
1370 *Arid Environments* 56(1): 43-61.

- 1371 Schütz, W. and P. Milberg. (1997). "Seed germination in *Launaea arborescens*: A continuously  
1372 flowering semi-desert shrub." *Journal of Arid Environments* 36(1): 113-122.
- 1373 Scheper, J. and C. Smit. (2011). "The role of rodents in the seed fate of a thorny shrub in an  
1374 ancient wood pasture." *Acta Oecologica* 37(2): 133-139.
- 1375 Schleicher, J., K. M. Meyer, et al. (2011). "Disentangling facilitation and seed dispersal from  
1376 environmental heterogeneity as mechanisms generating associations between savanna  
1377 plants." *Journal of Vegetation Science* 22(6): 1038-1048.
- 1378 Schleicher, J., K. Wiegand, et al. (2011). "Changes of woody plant interaction and spatial  
1379 distribution between rocky and sandy soil areas in a semi-arid savanna, South Africa." *Journal*  
1380 *of Arid Environments* 75(3): 270-278.
- 1381 Schoenbaum, I., J. Kigel, et al. (2009). "Weed infestation of wheat fields by sheep grazing  
1382 stubble in the mediterranean semi-arid region." *Crop and Pasture Science* 60(7): 675-683.
- 1383 Scholten, M., J. Donahue, et al. (2009). "Environmental regulation of dormancy loss in seeds of  
1384 *Lomatium dissectum* (Apiaceae)." *Annals of Botany* 103(7): 1091-1101.
- 1385 Schrauf, G. E., A. Martino, et al. (1998). "Genetic and environmental effects on the germination  
1386 behavior of perennial millet foxtail populations." *Ecologia Austral* 8(1): 49-56.
- 1387 Schupp, E. W., H. J. Heaton, et al. (1997). "Lagomorphs and the dispersal of seeds into  
1388 communities dominated by exotic annual weeds." *Great Basin Naturalist* 57(3): 253-258.
- 1389 Schurr, F. M., O. Bossdorf, et al. (2004). "Spatial pattern formation in semi-arid shrubland: A  
1390 priori predicted versus observed pattern characteristics." *Plant Ecology* 173(2): 271-282.
- 1391 Schwenkmeyer, D. (1986). "The palm oasis: our tropical vestige." *Environment Southwest* 514:  
1392 18-23.
- 1393 Scott, A. J. and J. W. Morgan. (2012). "Resilience, persistence and relationship to standing  
1394 vegetation in soil seed banks of semi-arid Australian old fields." *Applied Vegetation Science*  
1395 15(1): 48-61.
- 1396 Scott, J. W., S. E. Meyer, et al. (2010). "Local population differentiation in *Bromus tectorum* L.  
1397 in relation to habitat-specific selection regimes." *Evolutionary Ecology* 24(5): 1061-1080.
- 1398 Scotti, I., F. Gugerli, et al. (2008). "Maternally and paternally inherited molecular markers  
1399 elucidate population patterns and inferred dispersal processes on a small scale within a  
1400 subalpine stand of Norway spruce (*Picea abies* [L.] Karst.)." *Forest Ecology and Management*  
1401 255(11): 3806-3812.
- 1402 Segoli, M., E. D. Ungar, et al. (2012). "Untangling the positive and negative effects of shrubs on  
1403 herbaceous vegetation in drylands." *Landscape Ecology* 27(6): 899-910.

- 1404 Seifert, B. and M. Fischer. (2010). "Experimental establishment of a declining dry-grassland  
1405 flagship species in relation to seed origin and target environment." *Biological Conservation*  
1406 143(5): 1202-1211.
- 1407 Seiwa, K., A. Watanabe, et al. (2002). "Impact of site-induced mouse caching and transport  
1408 behaviour on regeneration in *Castanea crenata*." *Journal of Vegetation Science* 13(4): 517-526.
- 1409 Serrato Cruz, M. A. and T. C. Martinez. (2012). "Morphology of floral structures related to  
1410 antitelechory dispersal of fruits in *tagetes moorei* h. rob. var. *breviligulata* villarreal." *Revista*  
1411 *Chapingo, Serie Ciencias Forestales y del Ambiente* 18(3): 261-269.
- 1412 Sharon, D., A. Margalit, et al. (2002). "Locally modified surface winds on linear dunes as  
1413 derived from directional raingauges." *Earth Surface Processes and Landforms* 27(8): 867-889.
- 1414 Shaukat, S. S. and I. A. Siddiqui. (2004). "Spatial pattern analysis of seeds of an arable soil seed  
1415 bank and its relationship with above-ground vegetation in an arid region." *Journal of Arid*  
1416 *Environments* 57(3): 311-327.
- 1417 Shaukat, S. S. and I. A. Siddiqui. (2007). "Comparative population ecology of *Senna occidentalis*  
1418 (L.) Link, a monsoon desert annual, in two different habitats." *Journal of Arid Environments*  
1419 68(2): 223-236.
- 1420 Shelton, M. and S. Dalzell. (2007). "Production, economic and environmental benefits of  
1421 *leucaena* pastures." *Tropical Grasslands* 41(3): 174-190.
- 1422 Shi, X., J. Wang, et al. (2011). "Patterns of fruit and seed production and ecological significance  
1423 in desert species *Eremosparton songoricum* (FABACEAE)." *Shengtai Xuebao/ Acta Ecologica*  
1424 *Sinica* 31(17): 4935-4940.
- 1425 Shi, X., J. Wang, et al. (2013). "The reproductive traits of rare desert species *Eremosparton*  
1426 *songoricum* (Fabaceae) at two sites with different soil water content." *Vegetos* 26(1): 1-8.
- 1427 Siepielski, A. M. and C. W. Benkman. (2010). "Conflicting selection from an antagonist and a  
1428 mutualist enhances phenotypic variation in a plant." *Evolution* 64(4): 1120-1128.
- 1429 Siepielski, A. M. and C. W. Benkman. (2007). "Convergent patterns in the selection mosaic for  
1430 two North American bird-dispersed pines." *Ecological Monographs* 77(2): 203-220.
- 1431 Silva, S. I., F. Bozinovic, et al. (2005). "Frugivory and seed dispersal by foxes in relation to  
1432 mammalian prey abundance in a semiarid thornscrub." *Austral Ecology* 30(7): 739-746.
- 1433 Silveira, A. P., F. R. Martins, et al. (2013). "Do vegetative and reproductive phenophases of  
1434 deciduous tropical species respond similarly to rainfall pulses?" *Journal of Forestry Research*  
1435 24(4): 643-651.
- 1436 Singh, R., P. Sharma, et al. (2007). "Seed predation and attenuating populations of *ephedra*  
1437 *foliata* boiss. In India." *Phytomorphology: An International Journal of Plant Morphology* 57(3-  
1438 4): 165-170.

- 1439 Sivy, K. J., S. M. Ostoja, et al. (2011). "Effects of rodent species, seed species, and predator  
1440 cues on seed fate." *Acta Oecologica* 37(4): 321-328.
- 1441 Snijman, D. A. and H. P. Linder. (1996). "Phylogenetic relationships, seed characters, and  
1442 dispersal system evolution in amaryllideae (Amaryllidaceae)." *Annals of the Missouri Botanical  
1443 Garden* 83(3): 362-386.
- 1444 Souza, J. T., E. M. N. Ferraz, et al. (1996). "Does proximity to a mature forest contribute to the  
1445 seed rain and recovery of an abandoned agriculture area in a semiarid climate?" *Plant Biology*.
- 1446 Spiegel, O. and R. Nathan. (2012). "Empirical evaluation of directed dispersal and density-  
1447 dependent effects across successive recruitment phases." *Journal of Ecology* 100(2): 392-404.
- 1448 Spiegel, O. and R. Nathan. (2007). "Incorporating dispersal distance into the disperser  
1449 effectiveness framework: Frugivorous birds provide complementary dispersal to plants in a  
1450 patchy environment." *Ecology Letters* 10(8): 718-728.
- 1451 Stapp, P. and G. A. Polis. (2003). "Influence of pulsed resources and marine subsidies on insular  
1452 rodent populations." *Oikos* 102(1): 111-123.
- 1453 Steinberger, Y., A. Shmida, et al. (1990). "Correlation of lignin with dissemination strategy  
1454 among annual desert plants." *Arid Soil Research & Rehabilitation* 4(3): 149-155.
- 1455 Stella, J. C., J. J. Battles, et al. (2006). "Synchrony of seed dispersal, hydrology and local climate  
1456 in a semi-arid river reach in California." *Ecosystems* 9(7): 1200-1214.
- 1457 Stephens, S. L. and D. L. Fry. (2005). "Spatial distribution of regeneration patches in an old-  
1458 growth *Pinus jeffreyi*-mixed conifer forest in northwestern Mexico." *Journal of Vegetation  
1459 Science* 16(6): 693-702.
- 1460 Strand, E. K., A. P. Robinson, et al. (2007). "Spatial patterns on the sagebrush steppe/Western  
1461 juniper ecotone." *Plant Ecology* 190(2): 159-173.
- 1462 Stromberg, J. C., J. A. Boudell, et al. (2008). "Differences in seed mass between hydric and xeric  
1463 plants influence seed bank dynamics in a dryland riparian ecosystem." *Functional Ecology*  
1464 22(2): 205-212.
- 1465 Stromberg, J. C., A. F. Hazelton, et al. (2009). "Ephemeral wetlands along a spatially  
1466 intermittent river: Temporal patterns of vegetation development." *Wetlands* 29(1): 330-342.
- 1467 Struwig, M., A. Jordaan, et al. (2011). "Anatomical adaptations of *Boerhavia* L. and  
1468 *Commicarpus* Standl. (Nyctaginaceae) for survival in arid environments of Namibia." *Acta  
1469 Biologica Cracoviensis Series Botanica* 53(2): 50-58.
- 1470 Su, Y. G., X. R. Li, et al. (2007). "Effects of biological soil crusts on emergence of desert vascular  
1471 plants in North China." *Plant Ecology* 191(1): 11-19.

- 1472 Su, Y. G., X. R. Li, et al. (2007). "Effects of two types of biological soil crusts on the germination  
1473 of desert vascular plants under laboratory conditions." *Shengtai Xuebao/ Acta Ecologica Sinica*  
1474 27(5): 1845-1851.
- 1475 Suzán-Azpiri, H. and V. J. Sosa. (2006). "Comparative performance of the giant cardon cactus  
1476 (*Pachycereus pringlei*) seedlings under two leguminous nurse plant species." *Journal of Arid*  
1477 *Environments* 65(3): 351-362.
- 1478 Sweeney, B. A. and J. E. Cook. (2001). "A landscape-level assessment of understory diversity in  
1479 upland forests of north-central Wisconsin, USA." *Landscape Ecology* 16(1): 55-69.
- 1480 Tamura, N. and F. Hayashi. (2008). "Geographic variation in walnut seed size correlates with  
1481 hoarding behaviour of two rodent species." *Ecological Research* 23(3): 607-614.
- 1482 Tassin, J., J. N. Rivière, et al. (2007). "Reproductive versus vegetative recruitment of the  
1483 invasive tree *Schinus terebinthifolius*: Implications for restoration on Reunion Island."  
1484 *Restoration Ecology* 15(3): 412-419.
- 1485 Tews, J., A. Esther, et al. (2006). "Linking a population model with an ecosystem model:  
1486 Assessing the impact of land use and climate change on savanna shrub cover dynamics."  
1487 *Ecological Modelling* 195(3-4): 219-228.
- 1488 Thiv, M., T. van der Niet, et al. (2011). "Old?New World and trans-African disjunctions of  
1489 *Thamnosma* (Rutaceae): Intercontinental long-distance dispersal and local differentiation in  
1490 the succulent biome." *American Journal of Botany* 98(1): 76-87.
- 1491 Thompson, S., G. Katul, et al. (2008). "Role of biomass spread in vegetation pattern formation  
1492 within arid ecosystems." *Water Resources Research* 44(10).
- 1493 Tin, S., R. W. Bizzoco, et al. (2011). "Role of the terrestrial subsurface in shaping geothermal  
1494 spring microbial communities." *Environmental Microbiology Reports* 3(4): 491-499.
- 1495 Tobe, K., L. Zhang, et al. (2007). "Seed size effects on seedling emergence of desert  
1496 psammophytes in China." *Arid Land Research and Management* 21(3): 181-192.
- 1497 Tobe, K., L. Zhang, et al. (2001). "Characteristics of seed germination in five non-halophytic  
1498 Chinese desert shrub species." *Journal of Arid Environments* 47(2): 191-201.
- 1499 Toju, H., S. Ueno, et al. (2011). "Metapopulation structure of a seed-predator weevil and its  
1500 host plant in arms race coevolution." *Evolution* 65(6): 1707-1722.
- 1501 Tomback, D. F. and Y. B. Linhart. (1990). "The evolution of bird-dispersed pines." *Evolutionary*  
1502 *Ecology* 4(3): 185-219.
- 1503 Truscott, J. E. and C. A. Gilligan. (2001). "The effect of cultivation on the size, shape, and  
1504 persistence of disease patches in fields." *Proceedings of the National Academy of Sciences of*  
1505 *the United States of America* 98(13): 7128-7133.

- 1506 Tschöpe, O. and K. Tielbörger. (2010). "The role of successional stage and small-scale  
1507 disturbance for establishment of pioneer grass *Corynephorus canescens*." Applied Vegetation  
1508 Science 13(3): 326-335.
- 1509 Turnau, E. and A. Prejbisz. (2006). "Dispersed seed-megaspores (*Granditetraspora zharkovae*  
1510 Arkhangelskaya and Turnau) from the Givetian of Western Pomerania, Poland." Review of  
1511 Palaeobotany and Palynology 142(1-2): 53-59.
- 1512 Ukizintambara, T., L. White, et al. (2007). "Gallery forests versus bosquets: Conservation of  
1513 natural fragments at LopÃ© National Park in central Gabon." African Journal of Ecology 45(4):  
1514 476-482.
- 1515 Ungar, I. A. and M. A. Khan. (2001). "Effect of bracteoles on seed germination and dispersal of  
1516 two species of *Atriplex*." Annals of Botany 87(2): 233-239.
- 1517 Uppstrom, K. A. and H. Klompen. (2011). "Mites (Acari) associated with the desert seed  
1518 harvester ant, *Messor pergandei* (Mayr)." Psyche.
- 1519 Valiente-Banuet, A., M. D. C. Arizmendi, et al. (1996). "Ecological relationships between  
1520 columnar cacti and nectar-feeding bats in Mexico." Journal of Tropical Ecology 12(1): 103-119.
- 1521 Valverde, T. and J. Silvertown. (1997). "A metapopulation model for *Primula vulgaris*, a  
1522 temperate forest understorey herb." Journal of Ecology 85(2): 193-210.
- 1523 Van Auken, O. W. (2000). "Shrub invasions of North American semiarid grasslands." Annual  
1524 Review of Ecology and Systematics 31: 197-215.
- 1525 Van Auken, O. W. (2009). "Causes and consequences of woody plant encroachment into  
1526 western North American grasslands." Journal of Environmental Management 90(10): 2931-  
1527 2942.
- 1528 van Uytvanck, J., T. Milotic, et al. (2009). "Interaction between large herbivore activities,  
1529 vegetation structure, and flooding affects tree seedling emergence." Plant Ecology 206(1): 173-  
1530 184.
- 1531 Vander Wall, S. B. (2001). "The evolutionary ecology of nut dispersal." Botanical Review 67(1):  
1532 74-117.
- 1533 Vander Wall, S. B., T. Esque, et al. (2006). "Joshua tree (*Yucca brevifolia*) seeds are dispersed by  
1534 seed-caching rodents." Ecoscience 13(4): 539-543.
- 1535 Vega, E. and C. Montaña. (2011). "Effects of overgrazing and rainfall variability on the  
1536 dynamics of semiarid banded vegetation patterns: A simulation study with cellular automata."  
1537 Journal of Arid Environments 75(1): 70-77.
- 1538 Venable, D. L. and J. S. Brown. (1993). "The population-dynamic functions of seed dispersal."  
1539 Vegetatio 107-108(1): 31-55.

- 1540 Venable, D. L., A. Flores-Martinez, et al. (2008). "Seed dispersal of desert annuals." *Ecology*  
1541 89(8): 2218-2227.
- 1542 Venable, D. L. and L. Lawlor. (1980). "Delayed germination and dispersal in desert annuals:  
1543 Escape in space and time." *Oecologia* 46(2): 272-282.
- 1544 Venier, P., C. Carrizo García, et al. (2012). "Survival and germination of three hard-seeded  
1545 Acacia species after simulated cattle ingestion: The importance of the seed coat structure."  
1546 *South African Journal of Botany* 79: 19-24.
- 1547 Villagra, P. E., L. Marone, et al. (2002). "Mechanisms affecting the fate of *Prosopis flexuosa*  
1548 (Fabaceae, Mimosoideae) seeds during early secondary dispersal in the Monte Desert,  
1549 Argentina." *Austral Ecology* 27(4): 416-421.
- 1550 Villasñor-Sánchez, E. I., R. Dirzo, et al. (2010). "Importance of the lilac-crowned parrot in pre-  
1551 dispersal seed predation of *Astronium graveolens* in a Mexican tropical dry forest." *Journal of*  
1552 *Tropical Ecology* 26(2): 227-236.
- 1553 Volis, S. (2009). "Seed-related traits and their adaptive role in population differentiation in  
1554 *Avena sterilis* along an aridity gradient." *Israel Journal of Plant Sciences* 57(1-2): 79-90.
- 1555 Volis, S., S. Mendlinger, et al. (2002). "Adaptive traits of wild barley plants of Mediterranean  
1556 and desert origin." *Oecologia* 133(2): 131-138.
- 1557 Waitman, B. A., S. B. Vander Wall, et al. (2012). "Seed dispersal and seed fate in Joshua tree  
1558 (*Yucca brevifolia*)."*Journal of Arid Environments* 81: 1-8.
- 1559 Walck, J. L. and S. N. Hidayati. (2007). "Ombrohydrochory and its relationship to seed dispersal  
1560 and germination strategies in two temperate North American *Oenothera* species  
1561 (Onagraceae)." *International Journal of Plant Sciences* 168(9): 1279-1290.
- 1562 Wall, S. B. V. and S. H. Jenkins. (2011). "Plant-animal interactions and climate: Why do yellow  
1563 pine chipmunks (*tamias amoenus*) and eastern chipmunks (*tamias striatus*) have such different  
1564 effects on plants?" *Ecoscience* 18(2): 130-137.
- 1565 Wang, D., X. Zhang, et al. (2013). "Research on diaspore morphology and species distribution  
1566 of 80 plants in the hill- gully Loess Plateau." *Shengtai Xuebao/ Acta Ecologica Sinica* 33(22):  
1567 7230-7242.
- 1568 Wang, F. Y., X. J. Ge, et al. (2008). "Strong genetic differentiation of *Primula sikkimensis* in the  
1569 East Himalaya-Hengduan Mountains." *Biochemical Genetics* 46(1-2): 75-87.
- 1570 Wang, J. H., C. C. Baskin, et al. (2009). "Effect of phylogeny, life history and habitat correlates  
1571 on seed germination of 69 arid and semi-arid zone species from northwest China."  
1572 *Evolutionary Ecology* 23(6): 827-846.
- 1573 Wang, S. M., X. Zhang, et al. (2005). "Spatial distribution patterns of the soil seed bank of  
1574 *Stipagrostis pennata* (Trin.) de Winter in the Gurbantonggut Desert of north-west China."  
1575 *Journal of Arid Environments* 63(1): 203-222.

- 1576 Wang, Y., X. Yang, et al. (2013). "The Formation of the Patterns of Desert Shrub Communities  
1577 on the Western Ordos Plateau, China: The Roles of Seed Dispersal and Sand Burial." PLoS ONE  
1578 8(7).
- 1579 Ward, D., D. Saltz, et al. (2000). "Distinguishing signal from noise: Long-term studies of  
1580 vegetation in Makhtesh Ramon erosion cirque, Negev desert, Israel." Plant Ecology 150(1-2):  
1581 27-36.
- 1582 Watson, D. M. (2009). "Determinants of parasitic plant distribution: The role of host quality."  
1583 Botany 87(1): 16-21.
- 1584 Watson, D. M., D. A. Roshier, et al. (2007). "Spatial ecology of a root parasite - From pattern to  
1585 process." Austral Ecology 32(4): 359-369.
- 1586 Webster, K. L. and E. A. Johnson. (2000). "The importance of regional dynamics in local  
1587 populations of limber pine (*Pinus flexilis*)."*Ecoscience* 7(2): 175-182.
- 1588 Wehncke, E. V., X. López-Medellín, et al. (2010). "Blue fan palm distribution and seed removal  
1589 patterns in three desert oases of northern Baja California, Mexico." Plant Ecology 208(1): 1-20.
- 1590 Wehncke, E. V., X. L. Medellín, et al. (2009). "Patterns of frugivory, seed dispersal and  
1591 predation of blue fan palms (*Brahea armata*) in oases of northern Baja California." Journal of  
1592 Arid Environments 73(9): 773-783.
- 1593 Weltzin, J. F. and G. R. McPherson. (1999). "Facilitation of conspecific seedling recruitment and  
1594 shifts in temperate savanna ecotones." Ecological Monographs 69(4): 513-534.
- 1595 Wenny, D. G. (2001). "Advantages of seed dispersal: A re-evaluation of directed dispersal."  
1596 Evolutionary Ecology Research 3(1): 51-74.
- 1597 Whisenant, S. G. (1995). "Landscape dynamics and arid land restoration." General Technical  
1598 Report - US Department of Agriculture, Forest Service(INT-GTR-315): 26-34.
- 1599 White, J. D., K. J. Gutzwiller, et al. (2008). "Modeling mechanisms of vegetation change due to  
1600 fire in a semi-arid ecosystem." Ecological Modelling 214(2-4): 181-200.
- 1601 Whitford, W. G., R. Nielson, et al. (2001). "Establishment and effects of establishment of  
1602 creosotebush, *Larrea tridentata*, on a Chihuahuan Desert watershed." Journal of Arid  
1603 Environments 47(1): 1-10.
- 1604 Whitney, K. D. (2002). "Dispersal for distance? *Acacia ligulata* seeds and meat ants  
1605 *Iridomyrmex viridiaeneus*." Austral Ecology 27(6): 589-595.
- 1606 Whitney, K. D. (2005). "Evidence for simple genetic control of a fruit-colour polymorphism in  
1607 *Acacia ligulata*." Australian Journal of Botany 53(4): 363-366.
- 1608 Whitney, K. D. and M. L. Stanton. (2004). "Insect seed predators as novel agents of selection on  
1609 fruit color." Ecology 85(8): 2153-2160.

- 1610 Wiegand, K., F. Jeltsch, et al. (1997). "The impact of roads on the survival of Acacia trees in the  
1611 Negev." *Verhandlungen der Gesellschaft fur Okologie* 28: 499-506.
- 1612 Wiegand, K., F. Jeltsch, et al. (1998). Decline of the Negev's Acacias - a spatially explicit  
1613 simulation model as an aid for sustainable management. *Advances in Ecological Sciences*.
- 1614 Wiegand, T., W. R. J. Dean, et al. (1997). "Simulated plant population responses to small-scale  
1615 disturbances in semi-arid shrublands." *Journal of Vegetation Science* 8(2): 163-176.
- 1616 Wijdeven, S. M. J. and M. E. Kuzee. (2000). "Seed availability as a limiting factor in forest  
1617 recovery processes in Costa Rica." *Restoration Ecology* 8(4): 414-424.
- 1618 Winkler, M., K. HÄlber, et al. (2009). "Population dynamics of epiphytic orchids in a  
1619 metapopulation context." *Annals of Botany* 104(5): 995-1004.
- 1620 Wolff, K., S. El-Akkad, et al. (1997). "Population substructure in *Alkanna orientalis*  
1621 (Boraginaceae) in the Sinai Desert, in relation to its pollinator behaviour." *Molecular Ecology*  
1622 6(4): 365-372.
- 1623 Wong, N. K., J. W. Morgan, et al. (2010). "A conceptual model of plant community changes  
1624 following cessation of cultivation in semi-arid grassland." *Applied Vegetation Science* 13(4):  
1625 389-402.
- 1626 Wright, B. R. and P. J. Clarke (2009). "Fire, aridity and seed banks. What does seed bank  
1627 composition reveal about community processes in fire-prone desert?" *Journal of Vegetation  
1628 Science* 20(4): 663-674.
- 1629 Wyatt, T. and I. R. Jenkinson. (1997). "Notes on *Alexandrium* population dynamics." *Journal of  
1630 Plankton Research* 19(5): 551-575.
- 1631 Yang, X., C. C. Baskin, et al. (2013). "Hydrated mucilage reduces post-dispersal seed removal of  
1632 a sand desert shrub by ants in a semiarid ecosystem." *Oecologia* 173(4): 1451-1458.
- 1633 Yang, X., C. C. Baskin, et al. (2012). "Degradation of seed mucilage by soil microflora promotes  
1634 early seedling growth of a desert sand dune plant." *Plant, Cell and Environment* 35(5): 872-  
1635 883.
- 1636 Yang, X., J. M. Baskin, et al. (2012). "More than just a coating: Ecological importance,  
1637 taxonomic occurrence and phylogenetic relationships of seed coat mucilage." *Perspectives in  
1638 Plant Ecology, Evolution and Systematics* 14(6): 434-442.
- 1639 Yang, X., W. Zhang, et al. (2011). "The achene mucilage hydrated in desert dew assists seed  
1640 cells in maintaining DNA integrity: Adaptive strategy of desert plant *Artemisia  
1641 sphaerocephala*." *PLoS ONE* 6(9).
- 1642 Yang, Y., Y. Bai, et al. (2013). "Seed dispersal and seedling recruitment of *Ulmus pumila*  
1643 woodland in the Keerqin Sandy Land, China." *Shengtai Xuebao/ Acta Ecologica Sinica* 33(2):  
1644 374-381.

- 1645 Yang, Y. and Q. Wang. (2013). "The Earliest Fleshy Cone of Ephedra from the Early Cretaceous  
1646 Yixian Formation of Northeast China." PLoS ONE 8(1).
- 1647 Yang, Y. f., Y. p. Bai, et al. (2011). "Local formation mechanisms of Hemiptelea davidii forest in  
1648 Keerqin Sandy Land of North China." Chinese Journal of Ecology 30(11): 2389-2393.
- 1649 Yang, Y. F., Y. P. Bai, et al. (2010). "Spatial patterns of seed dispersal in Hemiptelea davidii  
1650 woodland in Keerqin sandy land, China." Chinese Journal of Applied Ecology 21(8): 1967-1973.
- 1651 Yoshikawa, M., Y. Hoshino, et al. (2013). "Role of seed settleability and settling velocity in  
1652 water for plant colonization of river gravel bars." Journal of Vegetation Science 24(4): 712-723.
- 1653 Young, J. A. and C. D. Clements. (2003). "Germination of seeds of Fremont cottonwood."  
1654 Journal of Range Management 56(6): 660-664.
- 1655 Yurtsev, B. A. (2001). "The Pleistocene "Tundra-steppe" and the productivity paradox: The  
1656 landscape approach." Quaternary Science Reviews 20(1-3): 165-174.
- 1657 Zamora, R., J. A. Hódar, et al. (2010). "Positive adjacency effects mediated by seed disperser  
1658 birds in pine plantations." Ecological Applications 20(4): 1053-1060.
- 1659 Zeriahene, N., R. Prat, et al. (1998). "Cell walls of seed hairs from *Lygeum spartum*:  
1660 Ultrastructure, composition and mechanical properties." Annals of Botany 81(1): 61-66.
- 1661 Zhao, X. F., Y. F. Zhu, et al. (2009). "Comparison of diaspore shape, size, and mass of main  
1662 desert plants in the lower reaches of Tarim River of Xinjiang, China." Chinese Journal of  
1663 Ecology 28(3): 411-416.
- 1664 Zheng, Y., G. M. Rimmington, et al. (2005). "Germination characteristics of *Artemisia ordosica*  
1665 (Asteraceae) in relation to ecological restoration in northern China." Canadian Journal of  
1666 Botany 83(8): 1021-1028.
- 1667 Zobel, M. and R. Kalamees. (2005). "Diversity and dispersal - Can the link be approached  
1668 experimentally?" Folia Geobotanica 40(1): 3-11.
- 1669 Zywiec, M., J. Holeksa, et al. (2013). "Sorbus aucuparia regeneration in a coarse-grained spruce  
1670 forest - a landscape scale." Journal of Vegetation Science 24(4): 735-743.
- 1671