

Appendix 1. Records used in the meta analysis relating genetic differentiation with seed bank type (n = 47). Mating system, SC = self-compatible, SC/MO = self-compatible but mainly outcrossing, OO = obligate outcrossing. N = number of populations. Seedbank type, 1 = persistent, 0 = transient. F_{ST} = between population genetic differentiation.

Study	Species	n	Mating system	Seedbank type	F_{ST}
Coates 1988	<i>Acacia anomala</i>	10	SC/MO	0	0.056
Young et al. 1993	<i>Acer saccharum</i>	8	SC/MO	0	0.019
Weidema et al. 1996	<i>Armeria maritima</i>	17	OO	0	0.176
Kahmen and Poschlod 2000	<i>Arnica montana</i>	11	OO	0	0.044
Luijten et al. 2000	<i>Arnica montana</i>	26	OO	0	0.14
Mandak et al. 2005	<i>Atriplex tatarica</i>	11	SC	1	0.186
Mandak et al. 2005	<i>Atriplex tatarica</i>	14	SC	1	0.225
Hurtrez-Bousses 1996	<i>Brassica Insularis</i>	7	SC/MO	1	0.107
Alexandersson and Agren 2000	<i>Calypso bulbosa</i>	21	SC/MO	0	0.072
Hooftman et al. 2004	<i>Carex davalliana</i>	18	OO	1	0.07
Godt et al. 2005	<i>Castilleja levisecta</i>	11	OO	0	0.189
Colas et al. 1997	<i>Centaurea corymbosa</i>	6	OO	0	0.35
Paschke et al. 2002	<i>Cochlearia bavarica</i>	24	OO	0	0.61
Neel and Ellstrand 2003	<i>Eriogonum ovalifolium</i>	31	SC/MO	0	0.14
Berge et al. 1998	<i>Festuca ovina</i>	34	OO	1	0.054
Weidema et al. 2000	<i>Filipendula vulgaris</i>	17	SC/MO	0	0.072
Raijmann et al. 1994	<i>Gentiana pneumonanthe</i>	25	SC/MO	0	0.192
Vandepitte et al. 2007	<i>Geum urbanum</i>	18	SC	0	0.429
England et al. 2002	<i>Grevillea macleayana</i>	8	SC	1	0.218
Gustafsson 2000	<i>Gymnadenia conopsea</i>	10	SC	0	0.06
Lonn and Prentice 2002	<i>Gypsophila fastigiata</i>	16	SC/MO	1	0.045
Mix et al. 2006	<i>Hypochaeris radicata</i>	9	SC/MO	0	0.04
Oostermeijer and De Knegt 2004	<i>Juniperus communis</i>	12	OO	0	0.026
Galeuchet et al. 2005	<i>Lychnis flos-cuculi</i>	28	SC	1	0.022
Berge et al. 1998	<i>Lychnis viscaria</i>	28	SC/MO	0	0.122
Lammi et al. 1999	<i>Lychnis viscaria</i>	8	SC/MO	0	0.43
Prober et al. 1998	<i>Microseris lanceolata</i>	16	OO	0	0.027
Bonnin et al. 2002	<i>Parnassia palustris</i>	14	SC	0	0.14
Van Rossum et al. 2002	<i>Primula elatior</i>	9	OO	0	0.058
Van Rossum et al. 2004	<i>Primula veris</i>	24	OO	0	0.15
Van Rossum et al. 2004	<i>Primula vulgaris</i>	41	OO	0	0.165
Young et al. 1999	<i>Rutidosis leptorrhynchoides</i>	16	OO	0	0.17
Van Treuren et al. 1991	<i>Salvia pratensis</i>	14	SC/MO	0	0.156
Van Treuren et al. 1991	<i>Scabiosa columbaria</i>	12	SC/MO	0	0.175
Cruzan 2001	<i>Scutellaria montana</i>	31	SC	1	0.121
Giles and Goudet 1997	<i>Silene dioica</i>	52	OO	1	0.038
Van Rossum and Prentice 2004	<i>Silene nutans</i>	34	SC/MO	1	0.134
Van Rossum et al. 1997	<i>Silene nutans</i>	34	SC/MO	1	0.21
Van Rossum et al. 2003	<i>Silene nutans</i>	21	SC/MO	1	0.215
Dolan 1994	<i>Silene regia</i>	18	SC/MO	0	0.35
Bacles et al. 2004	<i>Sorbus aucuparia</i>	8	OO	0	0.043
Hooftman et al. 2004	<i>Succisa pratensis</i>	18	SC/MO	0	0.18
Lienert et al. 2002	<i>Swertia perennis</i>	18	OO	0	0.128
Gonzales and Hamrick 2005	<i>Trillium reliquum</i>	21	OO	0	0.297
Leimu and Mutikainen 2005	<i>Vincetoxicum hirundinaria</i>	12	SC	0	0.052
Culley and Grub 2003	<i>Viola pubescens</i>	9	SC	0	0.34
Evans et al. 2000	<i>Warea carteri</i>	23	SC	1	0.304

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Appendix 2. Studies (n = 13) used in the meta-analysis, comparing genetic diversity between seed bank and above ground plants. N = number of populations considered as independent samples. The total database contained 21 records on 12 plant species.

Study	species	N
Alvarez-Buylla et al. 1996	<i>Cecropia obtusifolia</i>	1
Aparicio et al. 2002	<i>Echinopartum algibicum</i>	1
Barrett et al. 2005	<i>Banksia hookeriana</i>	1
Cabin 1996	<i>Lesquerella fendleri</i>	2
Cabin et al. 1998	<i>Lesquerella fendleri</i>	5
Garray-Arroyo and Alvarez-Buylla 1997	<i>Cecropia obtusifolia</i>	1
Koch et al. 2003	<i>Cardamine amara</i>	1
Mandak et al. 2006	<i>Atriplex tatarica</i>	1
McCue et al. 1998	<i>Clarkia springvillensis</i>	3
Schneller 1998	<i>Athyrium filix-femina</i>	1
Shimono et al. 2006	<i>Primula modesta</i>	1
Tonsor et al. 1993	<i>Plantago lanceolata</i>	1
Uchiyama et al. 2006	<i>Betula maximowicziana</i>	2

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