

Tab. SM1 - List of 187 data points obtained from the 92 paternity analysis papers collected. For each data point are reported: the botanical group and family, the breeding system and the primary pollination vector of the studied species; the number of male and female individuals in the stand (in monoecious species the number of male individuals is equal to the number of female individuals), the number of pollen traps (referred to as “mother trees” in the text), the total number of sampled seeds, the stand area and stand density. In addition, for each paper the method and the molecular markers used for paternity assignment are reported. (NA): no information available.

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Pseudotsuga menziesii</i>	Gymnosperms	Pinaceae	monoecious	wind	84	84	6	547	2.4	35	exclusion, NM	allozymes	Adams (1992)
					36	36	6	574	2.4	15			
<i>Picea abies</i>	Gymnosperms	Pinaceae	monoecious	wind	33	33	26	1920	1	27	NM	allozymes	Xie & Knowles (1994)
<i>Cordia alliodora</i>	Angiosperms	Boraginaceae	monoecious	insect	123	123	19	380	5.9	20.9	exclusion	allozymes	Boshier et al. (1995)
<i>Gleditsia triacanthos</i>	Angiosperms	Fabaceae	dioecious	insect	61	42	10	295	3.2	32.19	exclusion	allozymes	Schnabel & Hamrick (1995) ^a
					61	42	10	669	3.2	32.19			
					124	70	10	1356	4.2	46.19			
					124	70	12	208	4.2	46.19			
<i>Pinus attenuata</i>	Gymnosperms	Pinaceae	monoecious	wind	65	65	4	880	0.04	1128	NM	allozymes	Burczyk et al. (1996)
<i>Pithecellobium elegans</i>	Angiosperms	Fabaceae	monoecious	insect	28	28	6	167	16	1	exclusion	SSRs	Chase et al. (1996)
<i>Calophyllum longifolium</i>	Angiosperms	Clusiaceae	mixed	insect	31	31	11	352	84	0.33	exclusion	allozymes	Stacy et al. (1996) ^a
					29	29	11	616	84	0.33			
<i>Spondias mombin</i>	Angiosperms	Anacardiaceae	monoecious	insect	19	19	10	576	84	0.17	exclusion	allozymes	Stacy et al. (1996) ^a
					19	19	11	430	84	0.17			
<i>Turpinia occidentalis</i>	Angiosperms	Staphyleaceae	monoecious	insect	30	30	6	172	50	0.45	exclusion	SSRs	Dow & Ashley (1998)
<i>Quercus macrocarpa</i>	Angiosperms	Fagaceae	monoecious	wind	62	62	3	282	5	12.4	exclusion	SSRs	Dow & Ashley (1998)
<i>Cecropia obtusifolia</i>	Angiosperms	Cecropiaceae	dioecious	wind	47	41	41	1230	8.64	5.4	exclusion	allozymes	Kaufman et al. (1998)
<i>Quercus petraea</i>	Angiosperms	Fagaceae	monoecious	wind	124	124	7	537	5.76	21.5	exclusion	SSRs	Streiff et al. (1999)
<i>Quercus robur</i>	Angiosperms	Fagaceae	monoecious	wind	167	167	6	447	5.76	29.3	exclusion	SSRs	Streiff et al. (1999)
<i>Rhododendron metternichii</i>	Angiosperms	Ericaceae	monoecious	insect	173	173	4	216	1.05	17.1	Cervus	SSRs	Kameyama et al. (2000)
<i>Neobalanocarpus heimii</i>	Angiosperms	Dipterocarpaceae	monoecious	insect	30	30	5	348	42	0.75	Cervus	SSRs	Konuma et al. (2000)
<i>Pinus flebilis</i>	Gymnosperms	Pinaceae	monoecious	wind	397	397	71	518	15	34.5	exclusion	allozymes	Schuster & Mitton (2000)
<i>Enterolobium cyclocarpum</i>	Angiosperms	Fabaceae	monoecious	animal, insect	11	11	5	783	8.9	1.23	exclusion	allozymes	Apsit et al. (2001) ^a
					11	11	5	721	8.9	1.23			
					11	11	2	193	8.9	1.23			

Tab. SM1 - (continued).

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Quercus robur</i>	Angiosperms	Fagaceae	monoecious	wind	57	57	3	180	4.5	57.8	exclusion	SSRs	Buiteveld et al. (2001)
<i>Dinizia excelsa</i>	Angiosperms	Fabaceae	monoecious	insect	36	36	11	333	NA	NA	Cervus	SSRs	Dick (2001)
<i>Pinus densiflora</i>	Gymnosperms	Pinaceae	monoecious	wind	154	154	1	874	9.1	16.9	exclusion	SSRs	Lian et al. (2001)
<i>Eucalyptus regnans</i>	Angiosperms	Myrtaceae	monoecious	animal, insect	285	285	30	1761	0.5	570	NM	allozymes	Burczyk et al. (2002)
<i>Swietenia humilis</i>	Angiosperms	Meliaceae	dioecious	insect	97	NA	5	150	NA	NA	exclusion	SSRs	White et al. (2002)
					44	NA	12	360	NA	NA			
					22	NA	17	510	NA	NA			
					97	NA	5	150	68	NA			
					74	NA	12	360	NA	NA			
<i>Eucalyptus grandis</i>	Angiosperms	Myrtaceae	monoecious	insect	349	349	30	724	0.6	580	FaMoz	SSRs	Chaix et al. (2003)
<i>Populus spp.</i>	Angiosperms	Salicaceae	dioecious	wind	12	9	3	103	0.2	105	exclusion	SSRs	Tabbener et al. (2003)
<i>Picea abies</i>	Gymnosperms	Pinaceae	monoecious	wind	557	557	10	2000	0.89	625	NM	allozymes	Burczyk et al. (2004)
<i>Magnolia obovata</i>	Angiosperms	Magnoliaceae	monoecious	insect	83	83	3	322	69	1.2	NA	SSRs	Isagi et al. (2004)
<i>Dipterocarpus tempehes</i>	Angiosperms	Dipterocarpaceae	monoecious	insect	277	277	3	147	70	3.95	Cervus	SSRs	Kenta et al. (2004) ^a
					277	277	3	188	70	3.95			
<i>Dicorynia guianensis</i>	Angiosperms	Fabaceae	monoecious	insect	157	157	22	246	40	3.9	FaMoz	SSRs	Latouche-Hallé et al. (2004)
<i>Quercus salicina</i>	Angiosperms	Fagaceae	monoecious	wind	111	111	8	276	11.56	13.5	Cervus	SSRs	Nakanishi et al. (2004)
<i>Fagus sylvatica</i>	Angiosperms	Fagaceae	monoecious	wind	24	24	24	511	0.35	68.6	Cervus	allozymes	Wang et al. (2004)
					70	70	70	844	0.78	90			
					99	99	99	1954	1.92	51.50			
<i>Fraxinus excelsior</i>	Angiosperms	Oleaceae	mixed	wind	146	146	19	422	900	0.16	NM	SSRs	Bacles et al. (2005, 2008)
<i>Albizia lebeck</i>	Angiosperms	Fabaceae	monoecious	insect	8	8	2	195	NA	NA	GFLOW	allozymes	Dunphy et al.(2005)
					3	3	1	81	NA	NA			
					11	11	4	210	NA	NA			
					2	2	1	142	NA	NA			
<i>Prunus mahaleb</i>	Angiosperms	Rosaceae	monoecious	insect	196	196	20	200	26	7.5	Cervus	SSRs	Garcia et al. (2005)

Tab. SM1 - (continued).

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Cryptomeria japonica</i>	Gymnosperms	Cupressaceae	monoecious	insect	62	62	12	360	0.31	200	exclusion	SSRs	Moriguchi et al. (2005)
					35	35	12	360	0.95	36.8			
					26	26	12	360	1.09	23.8			
					54	54	12	360	0.1	540			
					24	24	12	360	0.11	218			
<i>Quercus salicina</i>	Angiosperms	Fagaceae	monoecious	wind	111	111	6	796	11.56	9.6	exclusion, Cervus	SSRs	Nakanishi et al. (2005)
<i>Sorbus torminalis</i>	Angiosperms	Rosaceae	monoecious	insect	185	185	14	653	472	0.36	Cervus, NM, Patri	SSRs	Oddou-Muratorio et al. (2003, 2005) ^a
					185	185	60	1016	472	0.36			
<i>Pinus sylvestris</i>	Gymnosperms	Pinaceae	monoecious	wind	35	35	34	813	20	1.8	exclusion	SSRs	Robledo-Arnuncio & Gil (2005)
<i>Pseudotsuga menziesii</i>	Gymnosperms	Pinaceae	monoecious	wind	342	342	24	240	2.1	162.8	exclusion	SSRs	Slavov et al. (2005) ^a
					342	342	24	336	2.1	162.8			
<i>Fraxinus mandshurica</i>	Angiosperms	Fagaceae	dioecious	wind	76	74	4	200	10.5	7.28	NM	SSRs	Goto et al. (2006)
<i>Abies nordmanniana</i>	Gymnosperms	Pinaceae	monoecious	wind	353	353	24	232	NA	NA	Cervus	SSRs	Hansen et al. (2006)
<i>Shorea lumutensis</i>	Angiosperms	Dipterocarpaceae	monoecious	insect	47	47	4	182	8	4.4	Cervus	SSRs	Lee et al. (2006)
<i>Taxus baccata</i>	Gymnosperms	Taxodiaceae	dioecious	wind	10	15	7	279	2.1	12	exclusion	allozymes	Leinemann & Hattemer (2006)
<i>Populus nigra</i>	Angiosperms	Salicaceae	dioecious	wind	14	42	4	155	0.4	140	Cervus	SSRs	Vanden Broeck et al. (2006)
<i>Juglans mandshurica</i>	Angiosperms	Juglandaceae	monoecious	wind	73	73	6	221	0.96	76	Cervus	SSRs	Bai et al. (2007) ^b
					73	73	5	238	0.96	76			
<i>Araucaria angustifolia</i>	Gymnosperms	Araucariaceae	dioecious	wind	124	104	10	210	5.4	42.2	Cervus	SSRs	Bittencourt & Sebben (2007)
					9	2	1	20	NA	NA			
<i>Calothamnus quadrifidus</i>	Angiosperms	Myrtaceae	monoecious	bird	22	22	9	177	NA	0.002	Cervus	SSRs	Byrne et al. (2007)
					23	23	16	318	NA	0.018			
<i>Bursera simaruba</i>	Angiosperms	Bursereaceae	mixed	insect	9	9	5	247	NA	NA	GFLOW	allozymes	Dunphy & Hamrick (2007)
					7	7	3	124	NA	NA			
					6	6	2	222	NA	NA			
					6	6	1	19	NA	NA			

Tab. SM1 - (continued).

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Bursera simaruba</i>	Angiosperms	Burseraceae	mixed	insect	3	3	1	17	NA	NA	GFLOW	allozymes	Dunphy & Hamrick (2007)
<i>Shorea leprosula</i>	Angiosperms	Dipterocarpaceae	monoecious	insect	55	55	19	647	100	0.55	Cervus	SSRs	Fukue et al. (2007)
<i>Fagus crenata</i>	Angiosperms	Fagaceae	monoecious	wind	32	32	2	162	1.5	21.3	Cervus	SSRs	Hanaoka et al. (2007)
<i>Sorbus torminalis</i>	Angiosperms	Rosaceae	monoecious	insect	123	123	20	824	20	6.1	Cervus	SSRs	Hoebee et al. (2007)
<i>Entandrophragma cylindricum</i>	Angiosperms	Meliaceae	monoecious	insect	152	152	16	269	100	1.52	FaMoz	SSRs	Lourmas et al. (2007)
					113	113	20	358	100	1.13			
					123	123	15	334	440	0.28			
<i>Cryptomeria japonica</i>	Gymnosperms	Cupressaceae	monoecious	insect	1144	1144	9	900	0.1	11.55	NA	SSRs	Moriguchi et al. (2007)
<i>Picea glauca</i>	Gymnosperms	Pinaceae	monoecious	wind	32	32	32	2967	NA	4	NM	allozymes	O'Connel et al. (2007)
<i>Magnolia stellata</i>	Angiosperms	Magnoliaceae	monoecious	insect	84	84	9	483	NA	NA	Cervus	SSRs	Setsuko et al. (2007)
<i>Hevea brasiliensis</i>	Angiosperms	Euphorbiaceae	monoecious	insect	287	287	25	388	0.89	322	Cervus, FaMoz	SSRs	Yehili et al. (2007) ^a
					287	287	9	346	0.89	322			
<i>Araucaria angustifolia</i>	Gymnosperms	Araucariaceae	dioecious	wind	52	56	10	190	14	7.71	Cervus	SSRs	Bittencourt & Sebben (2008)
<i>Eucalyptus wandoo</i>	Angiosperms	Myrtaceae	monoecious	insect	46	46	12	240	NA	0.05	Cervus	SSRs	Byrne et al. (2008)
					40	40	11	220	NA	0.009			
<i>Hymenaea courbaril</i>	Angiosperms	Fabaceae	monoecious	bat	130	130	20	367	546	0.238	Cervus	SSRs	de Lacerda et al. (2008)
<i>Larix occidentalis</i>	Gymnosperms	Pinaceae	monoecious	wind	41	41	14	551	NA	NA	Cervus	SSRs	Funda et al. (2008)
<i>Kandelia candel</i>	Angiosperms	Rhizophoraceae	monoecious	insect	2062	2062	11	378	0.55	3749	Cervus	SSRs	Geng et al. (2008)
<i>Dipteryx panamensis</i>	Angiosperms	Fabaceae	monoecious	insect	104	104	11	50	65	0.8	FaMoz	SSRs	Hanson et al. (2008)
					50	50	22	107	52	0.21			
					52	52	25	124	40	0.58			
					12	12	9	44	NA	0.19			
<i>Eucalyptus grandis</i>	Angiosperms	Myrtaceae	monoecious	animal, insect	192	192	6	282	4	45.5	Cervus	SSRs	Jones et al. (2008) ^a
					192	192	2	94	4	45.5			
<i>Acacia saligna</i>	Angiosperms	Fabaceae	monoecious	insect	107	107	10	186	0.55	194.5	Cervus	allozymes	Millar et al. (2008)
<i>Shorea acuminata</i>	Angiosperms	Dipterocarpaceae	monoecious	insect	58	58	11	688	40	1.45	Cervus	SSRs	Naito et al. (2008)
<i>Prunus cerasoides</i>	Angiosperms	Rosaceae	monoecious	insect	16	16	5	100	NA	NA	Cervus	SSRs	Pakkad et al. (2008a)
					23	23	3	53	NA	NA			
					45	45	8	136	NA	NA			

Tab. SM1 - (continued).

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Quercus semiserrata</i>	Angiosperms	Fagaceae	monoecious	wind	26	26	8	174	10.8	2.4	Cervus	SSRs	Pakkad et al. (2008b)
					26	26	8	261	10.8	2.4			
<i>Bagassa guianensis</i>	Angiosperms	Moraceae	dioecious	insect	38	33	18	490	500	0.14	Cervus	SSRs	Silva et al. (2008)
<i>Eurycorymbus cavaleriei</i>	Angiosperms	Sapindaceae	dioecious	insect	19	14	8	240	33	0.57	Cervus	SSRs	Wang et al. (2008)
<i>Symphonia globulifera</i>	Angiosperms	Clusiaceae	monoecious	animal	161	161	56	748	500	0.33	Cervus	SSRs	Carneiro et al. (2009)
<i>Prunus avium</i>	Angiosperms	Rosaceae	monoecious	insect	978	978	10	419	34	28.8	Cervus, FaMoz	SSRs	Cottrell et al. (2009)
<i>Quercus spp</i>	Angiosperms	Fagaceae	monoecious	wind	296	296	8	320	NA	NA	FaMoz	SSRs	Curtu et al. (2009)
<i>Castanea crenata</i>	Angiosperms	Fagaceae	monoecious	insect	278	278	3	304	6	46.3	Cervus	SSRs	Hasegawa et al. (2009)
<i>Platypodium elegans</i>	Angiosperms	Fabaceae	monoecious	insect	68	68	5	500	50	0.2	exclusion, Cervus	SSRs	Hufford et al. (2009)
<i>Sorbus domestica</i>	Angiosperms	Rosaceae	monoecious	insect	189	189	49	1183	10	19	Cervus	SSRs	Kamm et al. (2009)
<i>Malus sylvestris</i>	Angiosperms	Rosaceae	monoecious	insect	50	50	12	180	12.69	20	Cervus	SSRs	Larsen & Kjaer (2009)
<i>Quercus lobata</i>	Angiosperms	Fagaceae	monoecious	wind	92	92	5	840	58.9	1.7	Cervus	SSRs	Pluess et al. (2009)
<i>Juglans spp</i>	Angiosperms	Juglandaceae	monoecious	wind	139	139	8	461	NA	NA	Cervus	SSRs	Pollegioni et al. (2009)
<i>Quercus spp</i>	Angiosperms	Fagaceae	monoecious	wind	295	295	30	855	6	49.17	Cervus	SSRs	Salvini et al. (2009)
<i>Populus trichocarpa</i>	Angiosperms	Salicaceae	dioecious	wind	419	NA	7	240	19.6	NA	Cervus	SSRs	Slavov et al. (2009)
					223	172	32	681	31400	NA			
<i>Shorea leprosula</i>	Angiosperms	Dipterocarpaceae	monoecious	insect	61	61	5	129	40	1.5	Cervus, NM	SSRs	Tani et al. (2009) ^a
					61	61	8	444	40	1.5			
					70	70	4	106	40	1.75			
					70	70	5	216	40	1.75			
<i>Quercus macrocarpa</i>	Angiosperms	Fagaceae	monoecious	wind	26	26	10	225	1	26	Cervus	SSRs	Craft & Ashley (2010)
					62	62	9	215	1	62			
					115	115	13	347	1	115			
<i>Myracrodruon urendeuva</i>	Angiosperms	Anacardiaceae	dioecious	wind, insect	467	467	29	414	436	1.07	Cervus	SSRs	Gaino et al. (2010)
<i>Eucalyptus nitens</i>	Angiosperms	Myrtaceae	monoecious	insect	50	50	10	473	0.33	151.5	Cervus	SSRs	Grosser et al. (2010)
<i>Gomortega keule</i>	Angiosperms	Gomortegaceae	monoecious	insect	176	176	31	196	NA	NA	Cervus	SSRs	Lander et al. (2010)
					92	92	38	218	NA	NA			
					32	32	16	96	NA	NA			
					30	30	1	1	NA	NA			

Tab. SM1 - (continued).

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Gomortega keule</i>	Angiosperms	Gomortegaceae	monoecious	insect	22	22	7	30	NA	NA	Cervus	SSRs	Lander et al. (2010)
					22	22	21	189	NA	NA			
					20	20	7	69	NA	NA			
					17	17	8	65	NA	NA			
					16	16	5	39	NA	NA			
					11	11	1	1	NA	NA			
					10	10	1	10	NA	NA			
					7	7	2	10	NA	NA			
			4	4	1	2	NA	NA					
<i>Populus nigra</i>	Angiosperms	Salicaceae	dioecious	wind	267	244	7	625	1	511	Cervus	SSRs	Rathmacher et al. (2010) ^a
					267	244	6	2264	1	511			
<i>Eurycorymbus cavaleriei</i>	Angiosperms	Sapindaceae	dioecious	insect	50	52	13	239	6.85	14.9	Cervus	SSRs	Wang et al. (2010a)
					96	98	17	277	16.7	11.6			
<i>Pinus tabulaeformis</i>	Gymnosperms	Pinaceae	monoecious	wind	1	1	1	24	NA	NA	exclusion	Cp SSRs	Wang et al. (2010b)
					1	1	1	28	NA	NA			
					1	1	1	28	NA	NA			
					1	1	1	27	NA	NA			
					1	1	1	30	NA	NA			
					2	2	1	24	NA	NA			
					2	2	1	25	NA	NA			
					2	2	1	29	NA	NA			
					2	2	1	20	NA	NA			
					3	3	1	27	NA	NA			
					3	3	1	24	NA	NA			
					3	3	1	22	NA	NA			
					3	3	1	29	NA	NA			
					3	3	1	26	NA	NA			
					3	3	1	35	NA	NA			
4	4	1	26	NA	NA								

Tab. SM1 - (continued).

Species	Group	Family	Breeding system ¹	Pollination vector	N males	N females	N traps	N seeds	Area	Density ²	Method ³	Markers ⁴	Reference
<i>Pinus tabulaeformis</i>	Gymnosperms	Pinaceae	monoecious	wind	4	4	1	29	NA	NA	exclusion	Cp SSRs	Wang et al. (2010b)
					4	4	1	26	NA	NA			
					4	4	1	30	NA	NA			
					6	6	1	30	NA	NA			
					8	8	1	27	NA	NA			
					9	9	1	24	NA	NA			
					14	14	1	29	NA	NA			
					20	20	1	23	NA	NA			
	39	39	2	59	NA	NA							
<i>Sinojackia spp</i>	Angiosperms	Styracaceae	monoecious	insect	64	64	8	249	NA	NA	Cervus	SSRs	Zhang et al. (2010)
<i>Tabebuia aurea</i>	Angiosperms	Bignoniaceae	monoecious	insect	260	260	21	309	40	6.5	Cervus	SSRs	Braga et al. (2011) ^a
					260	260	21	328	40	6.5			
<i>Quercus robur</i>	Angiosperms	Fagaceae	monoecious	wind	27	27	2	39	NA	NA	exclusion, Cervus	SSRs	Buschbom et al. (2011)
<i>Hymenaea stigonocarpa</i>	Angiosperms	Fabaceae	monoecious	bat	6	6	2	34	3.62	0.0094	Cervus	SSRs	de Moraes & Sebben (2011)
					28	28	12	137	3.62	0.0094			
<i>Guaiacum sanctum</i>	Angiosperms	Zygophyllaceae	monoecious	insect	35	35	6	108	50	0.7	FaMoz	allozymes	Fuchs & Hamrick (2011)
					21	21	21	378	0.8	26.25			
<i>Prunus avium</i>	Angiosperms	Rosaceae	monoecious	insect	39	39	10	400	6	6.5	self-made maximum likelihood	SSRs	Gregorius et al. (2011)
<i>Fagus sylvatica</i>	Angiosperms	Fagaceae	monoecious	wind	192	192	9	287	3.36	57	FaMoz, NM	SSRs	Piotti et al. (2012)
					235	235	9	275	1.44	163			
					286	286	4	187	1.91	150			
					90	90	5	249	1.32	68			
<i>Theobroma cacao</i>	Angiosperms	Malvaceae	monoecious	insect	156	156	9	450	0.56	278	Cervus	SSRs	Silva et al. (2011)