Electronic appendix to:
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Relationship between seed size and related functional traits in North Saharan *Acacia* woodlands

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Appendix – Studied species in the North Saharan *Acacia* woodlands of south-western Morocco: scientific name (including authorship) and studied traits.
Families names according to APG IV (Angiosperm Phylogeny Group 2016). Species names according to Euro+Med PlantBase (2006–2018). Life forms: Pher, perennial herbs; Ssh, semi-shrubs; Sh, shrubs; Tr, trees. Pha, phanerophyte; Cha, chamaephyte; Hem, hemi-cryptophyte; (s), presence of spines; (e), evergreen; (a), these diaspores often fall close to the parent plant, but may also be secondarily transported by vertebrates; (b), these diaspores often fall close to the parent plant, but may also be secondarily transported rolled along ground surface by wind (chamaechory). Spatial dispersal: RD, restricted spatial dispersal; DDA, developed spatial dispersal, by abiotic vectors; DDB, developed spatial dispersal by biotic vectors. Mechanisms to prevent dispersal (antitelechoric mechanisms): A, synaptospermy; B, myxospermy. C, basicarpy; D, bradyspory; E, trypanocarpy; F, hygrochasy. Vegetation types: DARW, dense *Acacia tortilis* subsp. *raddiana* woodland; MARW, medium-dense *Acacia tortilis* subsp. *raddiana* woodland; OARW, open *Acacia tortilis* subsp. *raddiana* woodland; ZLW, *Ziziphus lotus* woodland.

Family	Species name	Vegetation type	Life form	Dispersal mode	Spatial dispersal	Diaspore type	Leaf size (mm) and classes	Seed size (mg)	Fruit size (mg)	Plant height (cm)	Prevent dispersal	Flowering time
Apocynaceae	*Pergularia tomentosa* L.	DARW	Ssh-Cha	anemo-meteochory	DDA	achene with pappus	459.84±68.51 nano-microphyll	17.42±0.94	969.16±380	0.94±0.23	A	Mar/Jun
Asteraceae	*Anvillea garcinii* subsp. *radiata* (Coss. & Durieu) Anderb.	ZLW	Ssh-Cha (s)	ombro-hydrochory	RD	achene	17.56±5.14 nanophyll		0.38±0.007	0.28±0.07	B, D	Mar/May
		OARW	Ssh-Cha (s)	ombro-hydrochory	RD	achene	33.20±9.58 nanophyll		0.34±0.063	0.18±0.035	B, D	Mar/May
		DARW	Ssh-Cha (s)	ombro-hydrochory	RD	achene	80.805±13.03 nanophyll		0.61±0.13	0.27±0.01	B, D	Mar/May
	Brocchia cinerea (Delile) Vis.	DARW	Pher-Hem	semachory	RD	achene	12.12±2.25 leptophyll		0.05±0.001	0.16±0.06	B, D	Feb/May
		OARW	Pher-Hem	semachory	RD	achene	12.12±2.25 leptophyll		0.06±0.0004	0.20±0.070	B, D	Feb/May
	Carthamus fruticosus Maire	ZLW	Ssh-Cha (s)	anemo-meteochory	LDA	achene with pappus	23.11±4.64 nanophyll		10.86±2.33	0.23±0.05	A, D	May/Aug
	Launaea arborescens (Batt.) Murb.	ZLW	Ssh-Cha (s)	anemo-meteochory	LDA	achene with pappus	35.69±8.90 nanophyll		0.56±0.0057	0.30±0.06	A	Mar/Jun
Brassicaeae	*Farsetia aegyptia* Turra	ZLW	Ssh-Cha	anemo-meteochory	DDA	seed with wings	64.16±9.76 nanophyll	3.96±1.87		0.35±0.11		Nov/Jun
		DARW	Ssh-Cha	anemo-meteochory	DDA	seed with wings	64.16±13.01 nanophyll	2.01±0.48	10.25±2.20	0.67±0.15	D	Nov/Jun
	Farsetia occidentalis B.L.Burtt	MARW	Ssh-Cha	anemo-meteochory	DDA	seed with wings	42.12±7.37 nanophyll	0.64±3.42	18.16±4.43	0.59±0.105	D	Nov/Jun

Family	Species name	Vegetation type	Life form	Dispersal mode	Spatial dispersal	Diaspore type	Leaf size (mm) and classes	Seed size (mg)	Fruit size (mg)	Plant height (cm)	Prevent dispersal	Flowering time
Brassicaceae	*Moricandia arvensis* (L.) DC.	OARW	Pher-Hem	Semachory	RD	Seed	790.25±404.67 Nano-microphyll	0.74±1.12	37.54±9.17	0.62±0.178	B	Mar/Jun
	Zilla spinosa subsp. *macroptera* (Coss.) Maire & Weiller	OARW	Sh-Pha	barochory[b]	DDA	silique with wings	99.58±40.057 nanophyll	5.38±1.76	72.47±8.4	0.69±0.20	A, D, E	Feb/Jun
		MARW	Sh-Pha (s)	barochory[b]	DDA	silique with wings		4.11±0.79	48.82±9.35	0.68±0.160	A, D	Feb/Jun
		DARW	Sh-Pha (s)	barochory[b]	DDA	silique with wings	226.91±76.98 nanophyll	6.58±0.64	57.07±8.7	0.76±0.11	A, D, E	Feb/Jun
Capparaceae	*Cleome africana* Botsch.	OARW	Pher-Hem	semachory	RD	seed with trichomes	80.51±22.01 nanophyll	5.65±6.47	66.36±18.08	0.35±0.247	B, D	Mar/Jun
		MARW	Pher-Hem	semachory	RD	seed with trichomes	32.54±10.58 nanophyll	2.83±0.36	30.00±6.3	0.35±0.02	B, D	Mar/Jun
Convolvulaceae	*Convolvulus trabutianus* Schweinf. & Muschl.	ZLW	Ssh-Cha (s)	semachory	RD	seed	23.58±7.74 nanophyll	5.55±1.31	30.73±7.21	0.39±0.12		Apr/May
		MARW	Ssh-Cha (s)	semachory	RD	seed	26.46±3.91 nanophyll	5.62±0.51	15.62±7.8	0.34±0.108		Apr/May
Euphorbiaceae	*Euphorbia calyptrata* Coss. & Kralik	MARW	Pher-Hem	ballistic	RD	seed	54.00±11.91 nanophyll	5.63±2.88	28.40±0.88	0.30±0.05		Apr/Jun
Fabaceae	*Acacia tortilis* subsp. *raddiana* (Savi) Brenan	MARW	Tree-Pha (s)	barochory[a]	DDB	pod	2.65±0.75 sub-leptophyll (e)	91.19±12	901.39±258.2	4.00		Aug/Sep
		DARW	Tree-Pha (s)	barochory[a]	DDB	pod	3.41±0.58 sub-leptophyll (e)	58.51±22.7	965.17±268.80	9.00	B, C	Aug/Sep
	Retama raetam (Forssk.) Webb	OARW	Sh-Pha	barochory[b]	DDA	pod	83.76±14.38 nanophyll	64.74±12	124.6±41.5	1.48±0.29	D	Feb/Apr
Lamiaceae	*Lavandula coronopifolia* Poir.	ZLW	Ssh-Cha	semachory	RD	nutlet	47.85±20.05 nanophyll		0.49±0.1	0.29±0.13	D	May/Jul
	Salvia aegyptiaca L.	ZLW	Ssh-Cha	semachory	RD	nutlet	9.41±2.11 sub-leptophyll		0.72±0.081	0.28±0.05	B	Mar/Jun
	Sideritis ochroleuca Noë ex Willk.	ZLW	Ssh-Cha	semachory	RD	nutlet	13.55±3.57 leptophyll		0.23±0.0043	0.50±0.14		Jun/Aug

Family	Species name	Vegetation type	Life form	Dispersal mode	Spatial dispersal	Diaspore type	Leaf size (mm) and classes	Seed size (mg)	Fruit size (mg)	Plant height (cm)	Prevent dispersal	Flowering time
Resedaceae	*Caylusea hexagyna* (Forssk.) M.L.Green	OARW	Pher-Hem	semachory	RD	seed	53.35±15.51 nanophyll	0.12±0.002	2.82±0.44	0.50±0.08		Mar/May
		DARW	Pher-Hem	semachory	RD	seed	51.36±16.23 nanophyll	0.211±0.03	1.90±0.0035	1.03±1.91		Mar/May
	Reseda villosa Coss.	ZLW	Pher-Hem	semachory	RD	seed	71.07±23.98 nanophyll	0.43±0.043	32.79±9.48	0.28±0.05		Apr/May
		DARW	Pher-Hem	semachory	RD	seed	620.57±101.21 nano-microphyll	0.55±0.11	35.98±29.06	0.38±0.03		Apr/May
		OARW	Pher-Hem	semachory	RD	seed	108.19±11.2 nano-Microphyll	0.28±0.006		0.34±0.001		Apr/May
Rhamnaceae	*Ziziphus lotus* (L.) Lam.	ZLW	Sh-Pha (s)	barochory[a]	LDB	fruit drupe	186.67±40.34 nanophyll (e)		50.22±9.75	1.95±0.49	D	May/Jul
		DARW	Sh-Pha (s)	barochory[a]	DDB	fruit drupe	90.91±16.00 nanophyll (e)		198.40±41.49	1.08±0.31	D	May/Jul
Scrophulariaceae	*Linaria aegyptiaca* (L.) Dumort.	OARW	Pher-Hem (s)	semachory	RD	seed	14.26±1.56 nanophyll	0.30±0.0071	3.13±1.19	0.15±0.02		Jan/May
		MARW	Pher-Hem	semachory	RD	seed	25.15±5.51 nanophyll	0.11±0.001	3.82±1.22	0.20±0.04		Jan/May
		DARW	Pher-Hem (s)	semachory	RD	seed	21.87±3.81 nanophyll	0.18±0.019	4.24±0.82	0.24±0.001		Jan/May
	Scrophularia ramosissima Loisel.	ZLW	Ssh-Cha	semachory	RD	seed	34.23±15.42 nanophyll	0.23±0.001	12.97±1.41	0.86±1.70		Jan/May
Solanaceae	*Withania adpressa* (Coss.) Batt.	DARW	Sh-Pha	barochory[a]	DDB	fruit berry	838.19±249.36 nano-microphyll		70.86±39.4	1.50±0.41	A	Jan/May
Zygophyllaceae	*Fagonia glutinosa* Delile	OARW	Pher-Hem (s)	semachory	RD	seed	17.96±4.67 leptophyll	1.67±0.21	13.96±2.77	0.09±0.001	B	Mar/May
		MARW	Pher-Hem (s)	semachory	RD	seed	15.03±2.69 leptophyll	1.91±0.32	16.32±3.3	0.10±0.01	B	Mar/May
	Fagonia zilloides Humbert	OARW	Pher-Hem (s)	semachory	RD	seed		6.10±9.55	25.17±4.136	0.08±0.002	B	Mar/May
	Tetraena gaetula (Emb. & Maire) Beier & Thulin	DARW	Ssh-Cha	barochory	RD	fruit capsule		0.71±0.0058	63.44±10.48	0.26±0.136	A, B, D, E, F	Feb/May