

Appendices

Fig. S1 – Photos about the experiments.



Fabric sacks containing the washed propagules (Photo by Orsolya Valkó).



Propagules of *Arctium lappa* that have already started to germinate during the intensive washing treatment (Photo by Orsolya Valkó).



Preparation of the germination experiment: sowing (Photo by Tamás Miglécz).



Germinating seedlings in the greenhouse (Photo by Balázs Deák).



Germinated seedlings of *Physocaulis nodosus*. Each column contains pots with the same treatment. From the left to the right: column 1 is the control, columns 2-4 are the gentle washing and columns 5-7 are the intensive washing treatments (Photo by Tamás Miglécz).



Germinated seedlings of *Geum urbanum*. Each column contains pots with the same treatment. From the left to the right: column 1 is the control, columns 2-4 are the gentle washing and columns 5-7 are the intensive washing treatments (Photo by Tamás Miglécz).



Germinated seedlings of *Bromus sterilis*. Each column contains pots with the same treatment. From the left to the right: column 1 is the control, columns 2-4 are the gentle washing and columns 5-7 are the intensive washing treatments (Photo by Tamás Migléc).



Dry propagules of *Daucus carota* attached on blue jeans (Photo by Réka Kiss).



Dry propagules of *Daucus carota* attached on fleece sweater (Photo by Réka Kiss).



Dry propagules of *Daucus carota* attached on cotton socks (Photo by Réka Kiss).



Simulating outdoor drying conditions by a fan (Photo by Orsolya Valkó).



Counting the retention rate of washed and dried *Cynoglossum officinale* propagules on fleece (Photo by Orsolya Valkó).

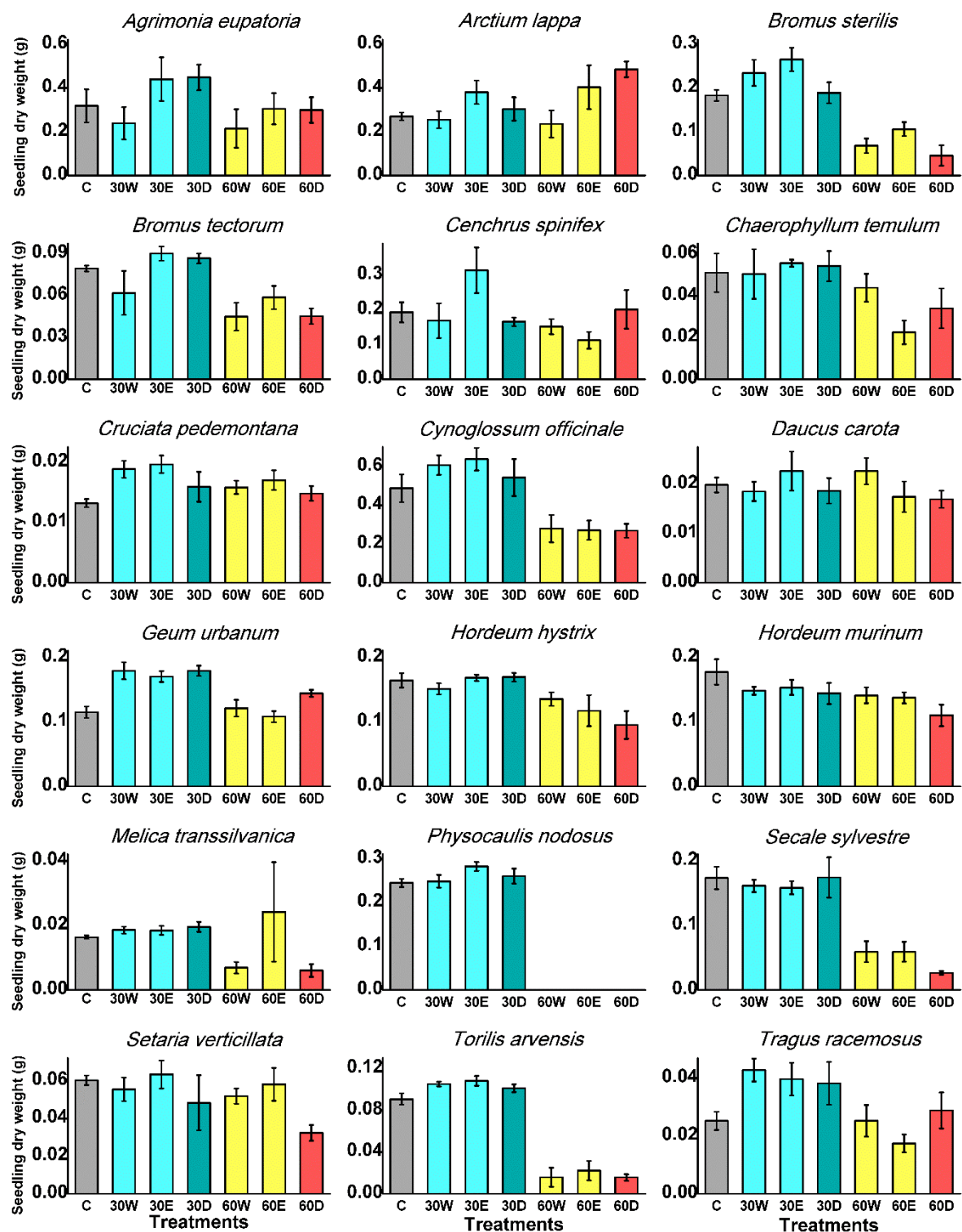


Fig.S2. Seedling dry mass (g, mean \pm SE) in the control and the six washing treatments (5 replicates of 25 propagules were sown per species and treatment, except for *H. murinum*, where 3 replicates of 25 propagules were used). Notations: grey column, C – control; blue columns: gentle washing at 30 °C (30W – washing with water at 30 °C, 30E – washing with eco-friendly soap nut at 30 °C and 30D – washing with detergent at 30 °C); yellow and orange columns – intense washing at 60 °C (60W – washing with water at 60 °C, 60E – washing with eco-friendly soap nut at 60 °C and 60D – washing with detergent at 60 °C).

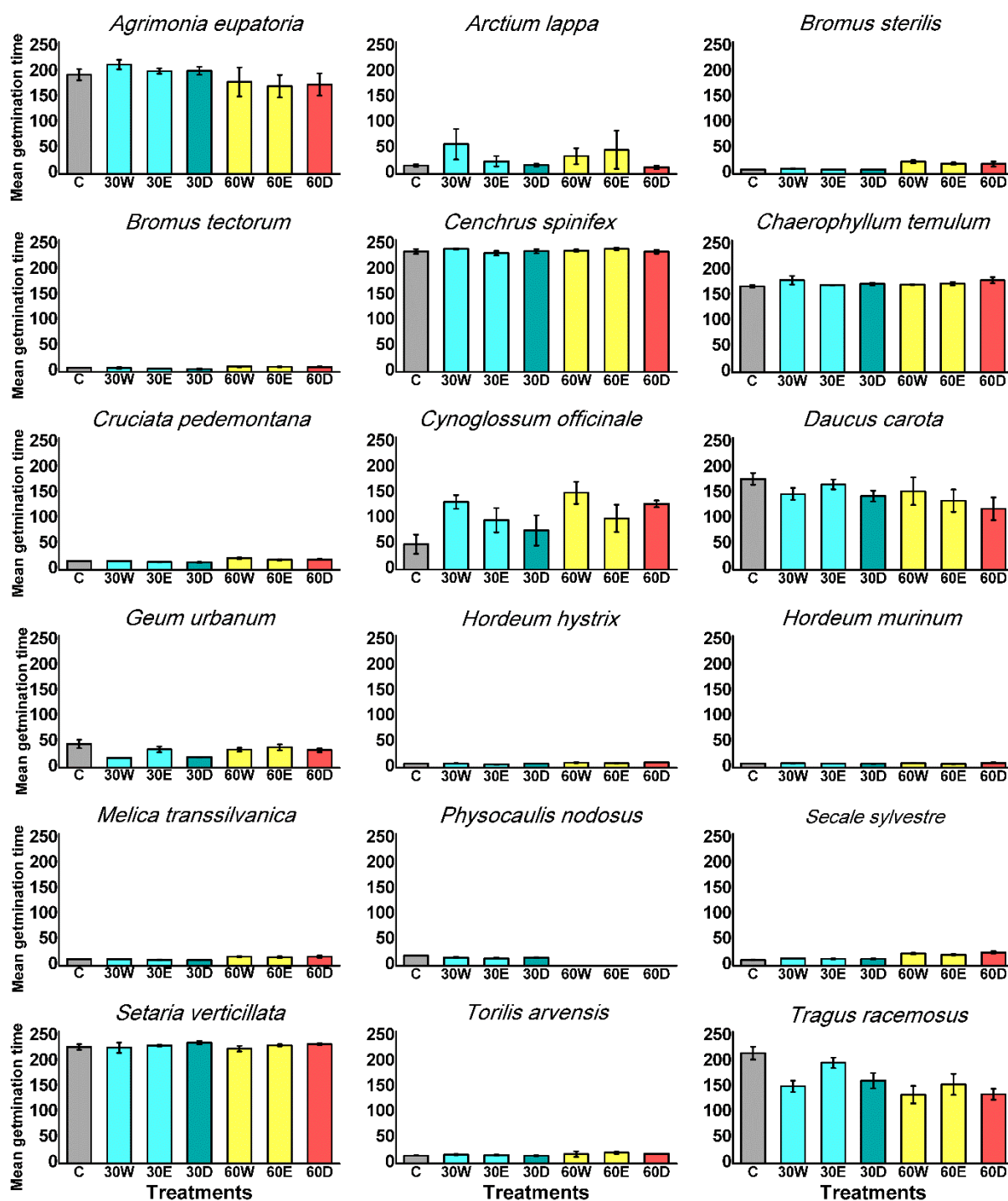


Fig.S3. Mean germination time (day, mean \pm SE) in the control and the six washing treatments (5 replicates of 25 propagules were sown per species and treatment, except for *H. murinum*, where 3 replicates of 25 propagules were used). Notations: grey column, C – control; blue columns: gentle washing at 30 °C (30W – washing with water at 30 °C, 30E – washing with eco-friendly soap nut at 30 °C and 30D – washing with detergent at 30 °C); yellow and orange columns – intense washing at 60 °C (60W – washing with water at 60 °C, 60E – washing with eco-friendly soap nut at 60 °C and 60D – washing with detergent at 60 °C).

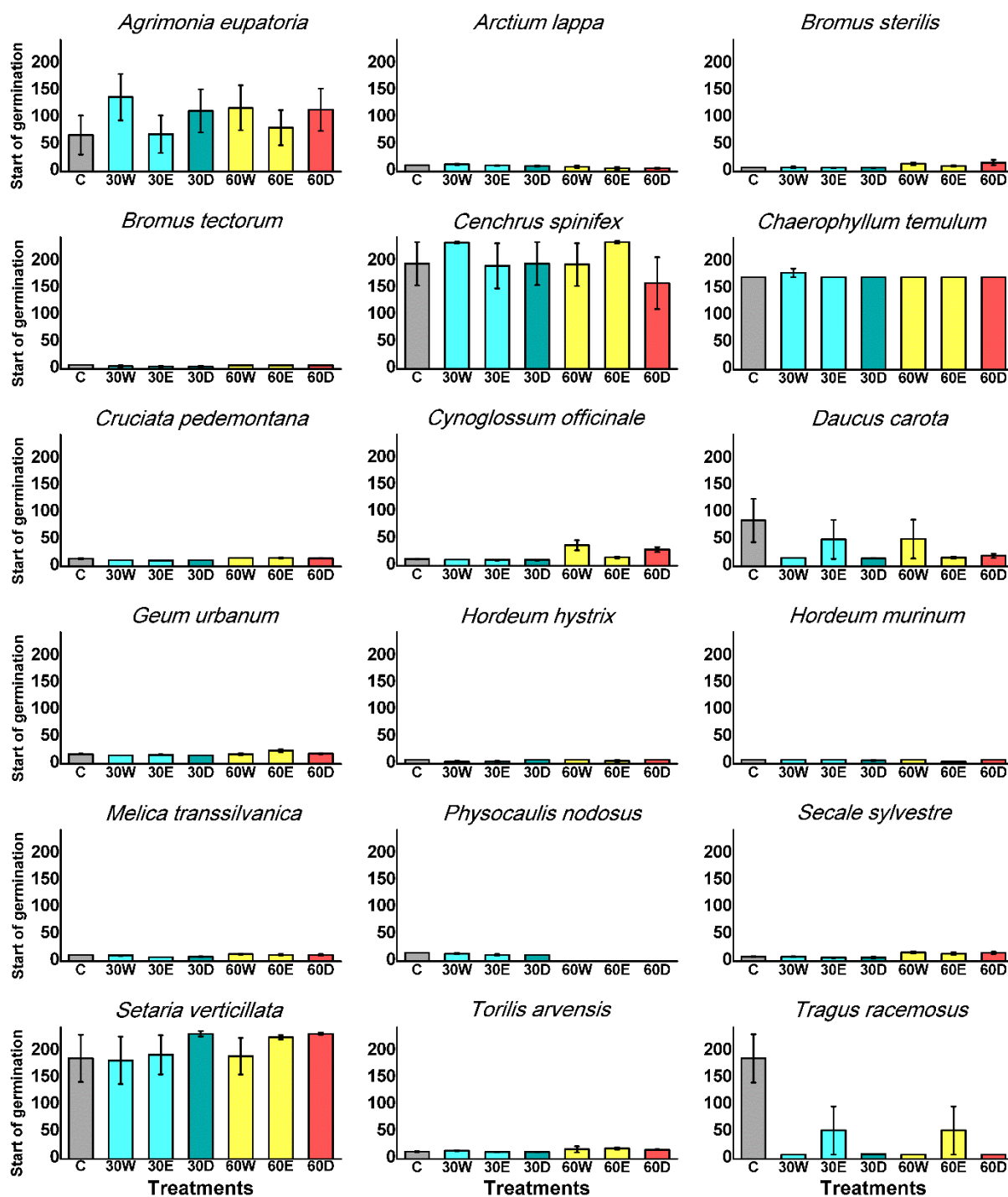


Fig. S4. Start of germination (days after sowing, mean \pm SE) in the control and the six washing treatments (5 replicates of 25 propagules were sown per species and treatment, except for *H. murinum*, where 3 replicates of 25 propagules were used). Notations: grey column, C – control; blue columns: gentle washing at 30 °C (30W – washing with water at 30 °C, 30E – washing with eco-friendly soap nut at 30 °C and 30D – washing with detergent at 30 °C); yellow and orange columns – intense washing at 60 °C (60W – washing with water at 60 °C, 60E – washing with eco-friendly soap nut at 60 °C and 60D – washing with detergent at 60 °C).

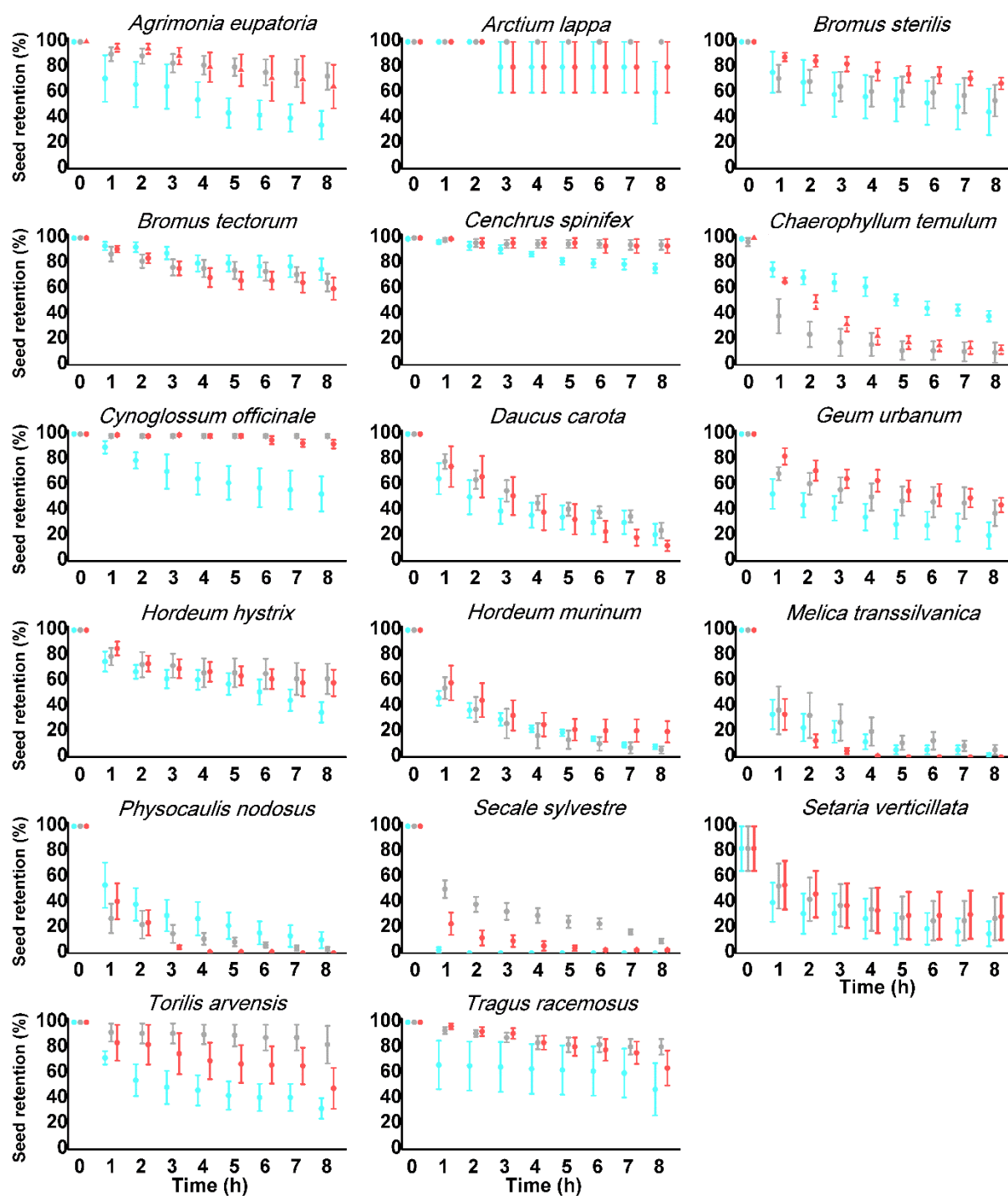


Fig. S5. Retention rate (% , mean \pm SE) of dry propagules of the studied species on three types of fabrics (blue jeans, cotton socks and fleece sweater) during a period of 8 hours. Notations: blue symbols – blue jeans, grey symbols – cotton socks, orange symbols – fleece sweater.

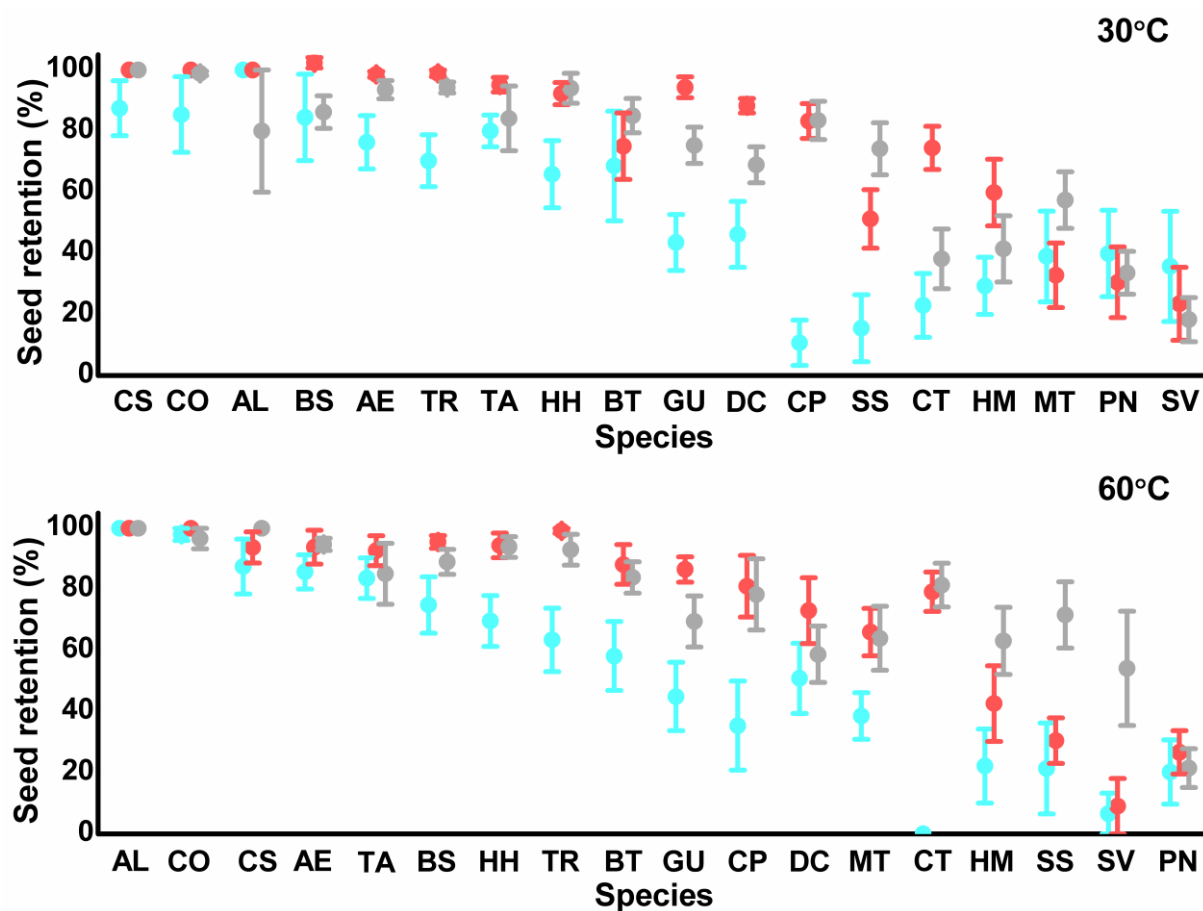


Fig. S6. Retention rate (% , mean \pm SE) of propagules of the studied species washed at 30 °C and 60 °C on washed and dried fabrics of three types (denim, cotton and fleece). Species are listed in a decreasing order of mean retention rate. Notations: blue symbols – denim, grey symbols – cotton, orange symbols – fleece. Species names are abbreviated using the first letters of their genus and species names. Retention rate is calculated as the percentage of the propagules that remained attached on the fabrics after drying in relation to the propagules that remained attached after washing.

Table S1. Fate of the propagules right after washing at 30°C, on three fabric types, given as the proportion of propagules (%) remaining on the same fabric where it was originally attached ('same fabric'), moved to other fabric piece ('other fabric') and lost in the washing machine or into the sewerage system ('lost').

Species	Gentle washing at 30°C								
	fleece			denim			cotton		
	same fabric	other fabric	lost	same fabric	other fabric	lost	same fabric	other fabric	lost
<i>Agrimonia eupatoria</i>	73.6	26.4	0.0	36.8	35.2	28.0	63.2	32.0	4.8
<i>Arctium lappa</i>	80.0	0.0	20.0	80.0	20.0	0.0	80.0	20.0	0.0
<i>Bromus sterilis</i>	83.2	16.0	0.8	88.8	1.6	9.6	75.2	20.0	4.8
<i>Bromus tectorum</i>	88.8	9.6	1.6	80.8	2.4	16.8	68.0	20.0	12.0
<i>Chaerophyllum temulum</i>	39.2	26.4	34.4	34.4	10.4	55.2	35.2	21.6	43.2
<i>Cenchrus spinifex</i>	85.3	5.3	9.4	69.3	12.0	18.7	100.0	0.0	0.0
<i>Cruciata pedemontana</i>	18.0	70.0	12.0	4.0	20.0	76.0	60.0	28.0	12.0
<i>Cynoglossum officinalis</i>	70.4	29.6	0.0	69.6	9.6	20.8	88.8	11.2	0.0
<i>Daucus carota</i>	30.4	59.2	10.4	11.2	32.0	56.8	47.2	27.2	25.6
<i>Geum urbanum</i>	48.0	47.2	4.8	12.0	38.4	49.6	33.6	44.8	21.6
<i>Hordeum hystrix</i>	79.2	16.0	4.8	36.0	17.6	46.4	76.8	16.8	6.4
<i>Hordeum murinum</i>	27.2	15.2	57.6	33.6	16.0	50.4	47.2	8.8	44.0
<i>Melica transsilvanica</i>	0.8	48.0	51.2	0.8	36.0	63.2	0.8	52.0	47.2
<i>Physocaulis nodosus</i>	9.6	31.2	59.2	7.2	18.4	74.4	34.4	20.0	45.6
<i>Secale sylvestris</i>	20.0	24.8	55.2	12.0	3.2	84.8	61.6	1.6	36.8
<i>Setaria verticillata</i>	7.2	14.4	78.4	1.6	8.8	89.6	12.0	32.0	56.0
<i>Torilis arvensis</i>	58.4	41.6	0.0	24.0	48.8	27.2	81.6	16.0	2.4
<i>Tragus racemosus</i>	2.4	97.6	0.0	1.6	69.6	28.8	35.2	62.4	2.4
Total	45.7	32.1	22.2	33.5	22.2	44.2	55.6	24.1	20.3

Table S1 (continued). Fate of the propagules right after washing at 60°C, on three fabric types, given as the proportion of propagules (%) remaining on the same fabric where it was originally attached ('same fabric'), moved to other fabric piece ('other fabric') and lost in the washing machine or into the sewerage system ('lost').

Species	Intensive washing at 60°C								
	fleece			denim			cotton		
	same fabric	other fabric	lost	same fabric	other fabric	lost	same fabric	other fabric	lost
<i>Agrimonia eupatoria</i>	50.4	48.0	1.6	27.2	53.6	19.2	46.4	51.2	2.4
<i>Arctium lappa</i>	80.0	20.0	0.0	40.0	0.0	60.0	80.0	20.0	0.0
<i>Bromus sterilis</i>	80.8	19.2	0.0	62.4	12.0	25.6	36.8	28.8	34.4
<i>Bromus tectorum</i>	70.4	25.6	4.0	61.6	15.2	23.2	28.0	43.2	28.8
<i>Chaerophyllum temulum</i>	21.6	38.4	40.0	0.0	4.8	95.2	8.8	18.4	72.8
<i>Cenchrus spinifex</i>	57.3	20.0	22.7	30.6	16.0	53.4	84.0	9.3	6.7
<i>Cruciata pedemontana</i>	6.0	54.0	40.0	6.0	22.0	72.0	16.0	70.0	14.0
<i>Cynoglossum officinalis</i>	80.0	19.2	0.8	60.8	39.2	0.0	80.8	19.2	0.0
<i>Daucus carota</i>	10.4	64.8	24.8	4.0	43.2	52.8	28.8	32.8	38.4
<i>Geum urbanum</i>	24.8	51.2	24.0	2.4	49.6	48.0	15.2	40.8	44.0
<i>Hordeum hystrix</i>	81.6	12.0	6.4	36.8	20.8	42.4	57.6	26.4	16.0
<i>Hordeum murinum</i>	7.2	23.2	69.6	4.0	4.8	91.2	22.4	6.4	71.2
<i>Melica transsilvanica</i>	4.8	38.4	56.8	2.4	45.6	52.0	9.6	49.6	40.8
<i>Physocaulis nodosus</i>	6.4	20.8	72.8	33.6	13.6	52.8	29.6	16.0	54.4
<i>Secale sylvestris</i>	3.2	32.8	64.0	2.4	6.4	91.2	8.8	11.2	80.0
<i>Setaria verticillata</i>	9.6	7.2	83.2	1.6	6.4	92.0	6.4	3.2	90.4
<i>Torilis arvensis</i>	64.8	35.2	0.0	20.0	62.4	17.6	68.8	31.2	0.0
<i>Tragus racemosus</i>	52.0	47.2	0.8	8.0	51.2	40.8	74.4	23.2	2.4
Total	39.5	32.1	28.4	22.4	25.9	51.6	39.0	27.8	33.2