

Supplementary material 2

Article: Root hemiparasites suppress invasive alien clonal plants: evidence from a cultivation experiment

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Biomass_data

Primary data table

Pot ID	host	parasite	treatment	parasite_g	host_g	parasite_n	host_n	kept.in.analysis	Remark
1	Solidago	Control	Control	NA	18.43	NA	33	TRUE	
2	Solidago	Control	Control	NA	14.91	NA	23	TRUE	
3	Solidago	Control	Control	NA	23.1	NA	14	TRUE	
4	Solidago	Control	Control	0.07	14.57	1	14	TRUE	* see below
5	Solidago	Control	Control	NA	26.94	NA	28	TRUE	
6	Solidago	Control	Control	NA	18.91	NA	19	TRUE	
7	Solidago	Control	Control	NA	12.34	NA	22	TRUE	
8	Solidago	Control	Control	NA	20.4	NA	27	TRUE	
9	Solidago	Control	Control	NA	14.45	NA	20	TRUE	
10	Solidago	Control	Control	NA	17.1	NA	25	TRUE	
11	Symphyotrichum	Control	Control	NA	9.92	NA	38	TRUE	
13	Symphyotrichum	Control	Control	NA	11.46	NA	25	TRUE	
14	Symphyotrichum	Control	Control	NA	10.17	NA	34	TRUE	
15	Symphyotrichum	Control	Control	NA	9.96	NA	33	TRUE	
16	Symphyotrichum	Control	Control	NA	12.33	NA	17	TRUE	
17	Symphyotrichum	Control	Control	NA	7.92	NA	31	TRUE	
18	Symphyotrichum	Control	Control	NA	9.51	NA	41	TRUE	
19	Symphyotrichum	Control	Control	NA	7.87	NA	26	TRUE	
20	Symphyotrichum	Control	Control	NA	12.62	NA	41	TRUE	
21	Solidago	Rhinanthus	Naïve	2.27	8.03	19	16	TRUE	
22	Solidago	Rhinanthus	Naïve	3.97	12.61	20	25	TRUE	
23	Solidago	Rhinanthus	Naïve	3.24	10.11	21	22	TRUE	
24	Solidago	Rhinanthus	Naïve	1.99	13.83	19	35	TRUE	
25	Solidago	Rhinanthus	Naïve	2.75	11.69	12	31	TRUE	
26	Solidago	Rhinanthus	Naïve	2.43	9.48	16	30	TRUE	
27	Solidago	Rhinanthus	Naïve	2.13	10.12	15	24	TRUE	
28	Solidago	Rhinanthus	Naïve	1.43	15.3	5	21	TRUE	
29	Solidago	Rhinanthus	Naïve	1.89	13.17	14	29	TRUE	
30	Solidago	Rhinanthus	Naïve	4.58	8.03	18	15	TRUE	
31	Symphyotrichum	Rhinanthus	Naïve	1.95	7.51	16	49	TRUE	
32	Symphyotrichum	Rhinanthus	Naïve	1.67	7.13	13	54	TRUE	
33	Symphyotrichum	Rhinanthus	Naïve	0.97	4.48	8	27	TRUE	
34	Symphyotrichum	Rhinanthus	Naïve	1.62	7.06	13	19	TRUE	
36	Symphyotrichum	Rhinanthus	Naïve	1.31	3.26	13	26	TRUE	
37	Symphyotrichum	Rhinanthus	Naïve	1.32	11.38	9	39	TRUE	
38	Symphyotrichum	Rhinanthus	Naïve	1.14	7.19	11	36	TRUE	
39	Symphyotrichum	Rhinanthus	Naïve	1.85	3.59	17	32	TRUE	
40	Symphyotrichum	Rhinanthus	Naïve	1.71	5.77	20	20	TRUE	
41	Solidago	Rhinanthus	Home	2.42	10.04	19	29	TRUE	
42	Solidago	Rhinanthus	Home	3.61	8.08	16	12	TRUE	
43	Solidago	Rhinanthus	Home	5.5	8.26	19	22	TRUE	
44	Solidago	Rhinanthus	Home	1.68	8.22	20	16	TRUE	
45	Solidago	Rhinanthus	Home	2.07	7.6	13	11	TRUE	
46	Solidago	Rhinanthus	Home	3.6	6.27	20	26	TRUE	
47	Solidago	Rhinanthus	Home	3.09	8.24	14	22	TRUE	
48	Solidago	Rhinanthus	Home	4.37	5.22	21	24	TRUE	
49	Solidago	Rhinanthus	Home	2.56	12.42	9	18	TRUE	
50	Solidago	Rhinanthus	Home	3.1	7.35	9	20	TRUE	
51	Symphyotrichum	Rhinanthus	Home	3.15	7.21	16	34	TRUE	
52	Symphyotrichum	Rhinanthus	Home	1.57	5.17	14	33	TRUE	
53	Symphyotrichum	Rhinanthus	Home	1.65	0.81	16	15	TRUE	
54	Symphyotrichum	Rhinanthus	Home	2.14	4.26	19	16	TRUE	
56	Symphyotrichum	Rhinanthus	Home	2.01	4.21	14	23	TRUE	
57	Symphyotrichum	Rhinanthus	Home	2.02	6.52	14	20	TRUE	
58	Symphyotrichum	Rhinanthus	Home	2.45	4.85	17	16	TRUE	
59	Symphyotrichum	Rhinanthus	Home	1.77	7.25	15	29	TRUE	
60	Symphyotrichum	Rhinanthus	Home	1.82	9.91	10	34	TRUE	
61	Solidago	Rhinanthus	Cross	1.17	8.05	16	25	TRUE	
62	Solidago	Rhinanthus	Cross	5.61	8.29	15	18	TRUE	
63	Solidago	Rhinanthus	Cross	3.78	7.28	23	19	TRUE	
64	Solidago	Rhinanthus	Cross	2.68	11	16	28	TRUE	
65	Solidago	Rhinanthus	Cross	3.42	5.61	21	14	TRUE	
66	Solidago	Rhinanthus	Cross	4.14	3.97	20	15	TRUE	
67	Solidago	Rhinanthus	Cross	3.89	7.89	14	22	TRUE	
68	Solidago	Rhinanthus	Cross	3.83	10.98	16	20	TRUE	
69	Solidago	Rhinanthus	Cross	2.81	8.47	20	17	TRUE	
70	Solidago	Rhinanthus	Cross	1.99	10.88	7	25	TRUE	
71	Symphyotrichum	Rhinanthus	Cross	1.91	7.47	13	36	TRUE	
72	Symphyotrichum	Rhinanthus	Cross	1.73	7.83	12	22	TRUE	
73	Symphyotrichum	Rhinanthus	Cross	1.2	7.63	8	39	TRUE	
74	Symphyotrichum	Rhinanthus	Cross	1.43	4.84	9	36	TRUE	
75	Symphyotrichum	Rhinanthus	Cross	1.89	10.63	16	26	TRUE	

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76	Symphyotrichum	Rhinanthus	Cross	1.32	5.62	11	30	TRUE
77	Symphyotrichum	Rhinanthus	Cross	1.1	7.68	8	37	TRUE
78	Symphyotrichum	Rhinanthus	Cross	1.35	11.04	4	40	TRUE
79	Symphyotrichum	Rhinanthus	Cross	1.62	9.83	14	28	TRUE
80	Symphyotrichum	Rhinanthus	Cross	1.95	4.75	19	18	TRUE
81	Solidago	Melampyrum	Naïve	4.43	3.18	9	13	TRUE
82	Solidago	Melampyrum	Naïve	7.29	2.02	15	13	TRUE
83	Solidago	Melampyrum	Naïve	8.73	7.21	6	23	TRUE
84	Solidago	Melampyrum	Naïve	7.72	2.78	18	16	TRUE
85	Solidago	Melampyrum	Naïve	4.66	1.98	10	13	TRUE
86	Solidago	Melampyrum	Naïve	6.45	2.39	7	16	TRUE
87	Solidago	Melampyrum	Naïve	8.35	3.42	17	14	TRUE
88	Solidago	Melampyrum	Naïve	10.07	3.2	20	14	TRUE
89	Solidago	Melampyrum	Naïve	8.41	1.93	20	16	TRUE
91	Symphyotrichum	Melampyrum	Naïve	4.4	8.07	11	20	TRUE
92	Symphyotrichum	Melampyrum	Naïve	4.97	4.95	11	24	TRUE
93	Symphyotrichum	Melampyrum	Naïve	3.7	8.25	16	26	TRUE
94	Symphyotrichum	Melampyrum	Naïve	4.75	5.11	14	31	TRUE
95	Symphyotrichum	Melampyrum	Naïve	5.06	4.62	16	28	TRUE
96	Symphyotrichum	Melampyrum	Naïve	2.22	9.89	3	33	TRUE
97	Symphyotrichum	Melampyrum	Naïve	1.2	7.55	11	23	TRUE
99	Symphyotrichum	Melampyrum	Naïve	4.11	4.99	20	31	TRUE
100	Symphyotrichum	Melampyrum	Naïve	4.4	3.73	12	37	TRUE
101	Solidago	Melampyrum	Home	5.8	10.83	3	18	TRUE
102	Solidago	Melampyrum	Home	8.78	3.78	14	18	TRUE
103	Solidago	Melampyrum	Home	7.48	3.22	10	15	TRUE
104	Solidago	Melampyrum	Home	7.17	6.57	7	21	TRUE
105	Solidago	Melampyrum	Home	5.7	5	4	9	TRUE
106	Solidago	Melampyrum	Home	7.85	5.36	14	15	TRUE
107	Solidago	Melampyrum	Home	5.62	3.13	11	15	TRUE
108	Solidago	Melampyrum	Home	8.82	5.67	13	18	TRUE
109	Solidago	Melampyrum	Home	7.23	4.68	11	19	TRUE
110	Solidago	Melampyrum	Home	6.48	2.3	16	9	TRUE
111	Symphyotrichum	Melampyrum	Home	4.3	6.17	13	30	TRUE
112	Symphyotrichum	Melampyrum	Home	2.09	9.94	4	33	TRUE
113	Symphyotrichum	Melampyrum	Home	2.16	8.36	7	30	TRUE
114	Symphyotrichum	Melampyrum	Home	4.21	5.5	20	27	TRUE
115	Symphyotrichum	Melampyrum	Home	2.91	3.65	15	33	TRUE
116	Symphyotrichum	Melampyrum	Home	3.46	12.22	6	19	TRUE
117	Symphyotrichum	Melampyrum	Home	2.24	3.38	10	22	TRUE
118	Symphyotrichum	Melampyrum	Home	1.4	4.6	4	28	TRUE
120	Symphyotrichum	Melampyrum	Home	2.35	2.94	9	16	TRUE
121	Solidago	Melampyrum	Cross	7.75	2.12	10	17	TRUE
123	Solidago	Melampyrum	Cross	4.27	4.44	3	10	TRUE
124	Solidago	Melampyrum	Cross	3.26	7.76	6	8	TRUE
125	Solidago	Melampyrum	Cross	4.55	2.59	17	11	TRUE
126	Solidago	Melampyrum	Cross	6.38	3.89	8	13	TRUE
128	Solidago	Melampyrum	Cross	6.19	2.09	8	18	TRUE
129	Solidago	Melampyrum	Cross	5.32	4.25	10	21	TRUE
130	Solidago	Melampyrum	Cross	4.48	3.54	7	9	TRUE
131	Symphyotrichum	Melampyrum	Cross	3.59	5.16	14	15	TRUE
132	Symphyotrichum	Melampyrum	Cross	4.37	7.92	16	41	TRUE
133	Symphyotrichum	Melampyrum	Cross	2.76	3.51	10	18	TRUE
134	Symphyotrichum	Melampyrum	Cross	3.08	4	16	21	TRUE
135	Symphyotrichum	Melampyrum	Cross	3.83	15.94	10	24	TRUE
136	Symphyotrichum	Melampyrum	Cross	4.58	6.38	10	18	TRUE
137	Symphyotrichum	Melampyrum	Cross	3.38	11.42	6	34	TRUE
138	Symphyotrichum	Melampyrum	Cross	1.58	4.42	9	10	TRUE
139	Symphyotrichum	Melampyrum	Cross	2.41	5.88	4	15	TRUE
140	Symphyotrichum	Melampyrum	Cross	2.53	16.69	5	14	TRUE

Pots removed from analysis due to poor host or hemiparasite development

12	Symphyotrichum	Control	Control	NA	7.67	NA	3	FALSE
35	Symphyotrichum	Rhinanthus	Naïve	0.25	7.88	2	26	FALSE
55	Symphyotrichum	Rhinanthus	Home	1.09	5.86	1	22	FALSE
90	Solidago	Melampyrum	Naïve	6.04	1.95	7	5	FALSE
98	Symphyotrichum	Melampyrum	Naïve	2.48	4.07	6	5	FALSE
119	Symphyotrichum	Melampyrum	Home	0.32	32.24	2	40	FALSE
122	Solidago	Melampyrum	Cross	2.13	6.17	1	7	FALSE
127	Solidago	Melampyrum	Cross	4.84	2.24	7	5	FALSE

* Accidental transfer of Melampyrum seed between pots by ants. Single small Melampyrum developed. Assumed to have no effect on the host.

Legend

Variable	Explanation
Pot ID	Pot identifier
host	Host species
parasite	Parasite species
treatment	Seed-source treatment
parasite_g	Total hemiparasite dry weight (g) in pot
host_g	Total host dry weight (g) in pot
parasite_n	Number of hemiparasite individuals in pot
host_n	Number of host shoots in pot
kept.in.analysis	Identifies if the pot is kept in analysis or excluded due to poor host or hemiparasite development (these pots are listed in the bottom)