

Table S2

Probability of multilocus genotypes (P_{gen}) and probability of their occurrence resulting from distinct sexual events (P_{sex}) for all samples of each of the five studied brûlés (a. SB1; b. SB2; c. PB1; d. PB2; e. PB3), with detailed mating-type [MT], sample types (found as maternal, paternal or ectomycorrhizae sample[ECM]), number of seasons of persistence, maximum size (calculated as the maximum distance between two samples of the same MLG, in centimeters).

a. SB1

MLG	n	P_{sex}	Significance	Level	P_{gen}	MT	Found as			ECM z1 [§]	ECM z2 [§]	Persistence (Nb. years) [¶]	Max. size MLG
							maternal	paternal	ECM				
1	1	-	-	-	0.000186252	1	1	-	-	-	-	1	-
2	1	-	-	-	0.00131472	1	-	-	1	-	-	1	-
3	1	-	-	-	0.00832657	1	-	-	1	-	-	1	-
4	12	0.000159276	0.00335008	**	0.0249797	1	1	-	-	11	-	2	256
5	1	-	-	-	0.000489986	2	-	1	-	-	-	1	-
6	1	-	-	-	0.011796	1	1	-	-	-	-	1	-
7	3	0.645307	0.82946	ns	0.0244993	2	-	3	-	-	-	2	214
8	34	3.77476e-015	0	***	0.0353879	1	8	-	26	-	-	2	440
9	1	-	-	-	0.00372504	1	-	1	-	-	-	1	-
10	1	-	-	-	0.0244993	2	-	1	-	-	-	1	-
11	3	0.860068	0.954355	ns	0.0353879	1	1	1	1	-	-	1	323
12	6	0.937065	0.977596	ns	0.073498	2	-	5	1	-	-	2	478
13	59	0	0	***	0.106164	1	10	-	14	21	15	4 (2011-2012-ns-2014)	495
14	1	-	-	-	0.00489986	2	-	1	-	-	-	1	-
15	2	-	-	ns	0.00489986	2	2	-	-	-	-	1	160
16	1	-	-	-	0.000122804	2	-	1	-	-	-	1	-
17	1	-	-	-	0.00293879	1	1	-	-	-	-	1	-
18	1	-	-	-	0.00864682	2	-	1	-	-	-	1	-

19	1	-	-	-	3.39091e-005	2	1	-	-	-	-	1	-
20	1	-	-	-	0.00065736	1	1	-	-	-	-	1	-
21	1	-	-	-	0.00624492	1	1	-	-	-	-	1	-
22	1	-	-	-	0.00558756	1	1	-	-	-	-	1	-

[§]Fine scale ectomycorrhizae sampling [‡] Sampled over three seasons (2011; 2012; not sampled; 2014).

*** PValue(0.01)= 0.000761107, significance level= 0.00994556

** PValue(0.05)= 0.00691498, significance level= 0.0499372

* PValue(0.10)= 0.0205954, significance level= 0.0999267

b. SB2

MLG	n	P _{sex}	Significance	Level	P _{gen}	MT	Found as		Persistence (Nb. years) [‡]	Max. size MLG
							maternal	paternal		
1	1	-	-	-	0.000252971	1	1	-	1	-
2	1	-	-	-	0.000180694	2	-	1	1	-
3	2	0.00140239	0.29142	ns	0.00151783	1	2	-	1	438.73
4	1	-	-	-	0.0001056	2	1	-	1	-
5	1	-	-	-	0.00619522	2	-	1	1	-
6	3	0.000523162	0.180473	ns	0.00433665	1	3	-	2	204.02
7	1	-	-	-	0.00433665	2	-	1	1	-
8	1	-	-	-	0.00151783	2	-	1	1	-
10	1	-	-	-	0.000172481	1	1	-	1	-
11	1	-	-	-	0.00379457	2	-	1	1	-
12	1	-	-	-	4.31201e-005	1	-	1	1	-
14	2	1.55431e-015	0	***	2.56001e-005	2	2	-	2	213.69
15	1	-	-	-	1.79201e-005	2	-	1	1	-
16	1	-	-	-	0.000563202	2	1	-	1	-
17	1	-	-	-	0.000394241	1	-	1	1	-

[‡] Sampled over four seasons (2011; 2012; 2013; 2014) but no sample was successfully identified in 2014.

*** PValue(0.01)= 1.1535e-005, significance level= 0.00887574

** PValue(0.05)= 8.16077e-005, significance level= 0.0488166

* PValue(0.10)= 0.000182868, significance level= 0.0991124

c. PB1

MLG	n	P _{sex}	Significance	Level	P _{gen}	MT	maternal	Found as paternal	ECM	Persistence (Nb. years) [‡]	Max. size MLG
1	1	-	-	-	4.9314e-005	1	-	1	-	1	-
2	4	9.52016e-013	0	***	3.67666e-005	2	4	-	-	1	309.09
3	1	-	-	-	0.000159322	1	-	1	-	1	-
4	1	-	-	-	0.000853192	1	-	1	-	1	-
5	1	-	-	-	0.00295336	1	-	1	-	1	-
6	1	-	-	-	0.00379717	1	-	1	-	1	-
7	1	-	-	-	0.00759435	1	-	1	-	1	-
8	1	-	-	-	0.0127979	1	-	1	-	1	-
9	1	-	-	-	1.6438e-005	2	-	-	1	1	-
10	1	-	-	-	0.00590672	1	-	1	-	1	-
11	37	0	0	***	0.00590672	2	24	-	13	3	382.41
12	4	0.0710792	0.473286	ns	0.0255958	1	-	4	-	1	302.64
13	1	-	-	-	0.0329088	1	-	1	-	1	-
14	4	0.0145043	0.213365	ns	0.0153575	1	-	4	-	2	285.81
15	1	-	-	-	0.00455661	1	-	1	-	1	-
16	1	-	-	-	0.000477966	1	-	1	-	1	-

[‡] Sampled over four seasons (2011; 2012; 2013; 2014) but no sample was successfully identified in 2014.

*** PValue(0.01)= 0.000178848, significance level= 0.00979213

** PValue(0.05)= 0.00141513, significance level= 0.0498196

* PValue(0.10)= 0.0049838, significance level= 0.099811

d. PB2

MLG	n	P _{sex}	Significance	Level	P _{gen}	MT	Found as		Persistence	Max. size
							maternal	paternal	(Nb. years) ^x	MLG
1	1	-	-	-	1.17928e-006	1	-	1	1	-
2	1	-	-	-	7.86188e-005	1	-	1	1	-
3	1	-	-	-	0.00120385	2	1	-	1	-
4	1	-	-	-	1.19697e-007	1	-	1	1	-
5	1	-	-	-	0.000152613	1	-	1	1	-
6	1	-	-	-	0.0022892	1	-	1	1	-
7	3	0.00645431	0.313125	ns	0.00648605	1	-	3	2	96.04
8	1	-	-	-	0.00534146	1	-	1	1	-
9	1	-	-	-	0.00605365	1	-	1	1	-
10	1	-	-	-	0.000361155	2	1	-	1	-
11	1	-	-	-	0.000773904	2	1	-	1	-
12	1	-	-	-	0.000291352	1	-	1	1	-
13	23	0	0	***	0.00541733	2	23	-	3	313.92
14	6	8.4041e-005	0.0353149	*	0.0123825	1	-	6	2	223.99
15	1	-	-	-	0.000361155	2	1	-	1	-
16	1	-	-	-	0.000361155	2	1	-	1	-
17	1	-	-	-	6.47449e-006	1	-	1	1	-
18	1	-	-	-	8.96837e-006	1	1	-	1	-
19	1	-	-	-	6.64715e-006	1	-	1	1	-
20	2	3.24555e-008	0	***	4.43143e-006	1	-	2	1	136.97
21	6	0	0	***	3.8775e-005	2	6	-	1	249.70
22	1	-	-	-	0.000332357	1	-	1	1	-
23	1	-	-	-	0.000815786	1	-	1	1	-

^x Sampled over four seasons (2011; 2012; 2013; 2014) but there was no fructification in 2014.

*** PValue(0.01)= 7.45989e-006, significance level= 0.0094173

** PValue(0.05)= 0.000170245, significance level= 0.0494408

* PValue(0.10)= 0.000574068, significance level= 0.0994703

e. PB3

MLG	n	P _{sex}	Significance	Level	P _{gen}	MT	Found as		Persistence	Max. size
							maternal	paternal	(Nb. years) [‡]	MLG
1	1	-	-	-	0.000689998	2	-	1	1	-
2	1	-	-	-	0.000147857	2	-	1	1	-
3	1	-	-	-	0.0129375	2	-	1	1	-
4	14	0	0	***	0.00431249	1	14	-	2	201.1
5	1	-	-	-	0.00862498	2	-	1	1	-
6	1	-	-	-	0.000689998	1	1	-	1	-
7	1	-	-	-	0.00776248	2	-	1	1	-
8	1	-	-	-	3.16836e-005	2	-	1	1	-

[‡] Sampled over four seasons (2011; 2012; 2013; 2014), with only one fructification in 2014.

*** PValue(0.01)= 1.27129e-005, significance level= 0.00902527

** PValue(0.05)= 0.000113704, significance level= 0.0487365

* PValue(0.10)= 0.00025464, significance level= 0.0974729