

**Table S4** - Multilocus linkage disequilibrium at truffle-ground scale. Linkage disequilibrium was tested on the four truffle ground populations after clone correction (i.e. on culled data), using Genepop 4.4 computing association of alleles between loci, also described as a test of the composite linkage disequilibrium (Weir, B. S., 1996. Genetic Data Analysis II. Sinauer, Sunderland, Mass). A global test was performed across each population using Fisher's combined probability test, combining probabilities from independent tests on each pairs of loci (see Material and Methods; Fisher, 1925).

SG1			SG2			PG1			PG2		
Nb. pairs loci (%)	X <sup>2</sup>	P	Nb. pairs loci (%)	X <sup>2</sup>	P	Nb. pairs loci (%)	X <sup>2</sup>	P	Nb. pairs loci (%)	X <sup>2</sup>	P
29 (44%)	4.19e+02	1.07e-33	16 (24%)	2.84e+02	1.63e-13	5 (8%)	156.22	0.074	7 (16 %)	1.43e+02	3.32e-04