

**Supplementary Table S1** Physical distance and significance of Fisher's exact test (pair-wise linkage disequilibrium test) between alleles on three supercontigs of *Sclerotinia sclerotiorum* in eight population samples after clone correction

Locus pair	Distance (kb)	Pea	Gourds	Potato (E)	Potato (D)	Lentil 2003	Lentil 2005	Canola (USA)	Canola (China)
<b>Supercontig 3 (Chromosome 4)</b>									
3A vs. 3B	56	0.001	0.0	0.0	0.0001	0.0003	0.001	0.0007	0.002
3B vs. 3C	156	0.034	0.113	0.23	0.002	0.1106	0.00	0.087	1.00
3A vs. 3C	212	0.38	0.001	0.626	0.004	0.044	0.09	0.746	1.00
<b>Supercontig 9 (Chromosome 6)</b>									
9B vs. 9C	1000	0.0	0.0	0.005	0.015	0.0001	0.0	0.011	0.142
9A vs. 9B	4000	0.32	0.0027	0.287	0.41	0.07	0.02	0.51	0.284
9A vs. 9C	5000	0.858	0.195	0.329	0.14	0.022	0.53	0.89	0.856
<b>Supercontig 19 (Chromosome 5)</b>									
19B vs. 19C	14.2	0.769	0.55	0.0822	0.002	0.0	0.006	0.00	n/a <sup>a</sup>
19A vs. 19B	247	0.71	0.65	0.03	0.06	0.397	0.0002	0.69	1.0
19A vs. 19C	261.2	0.307	0.36	0.891	0.44	0.012	0.0012	0.08	n/a <sup>a</sup>

<sup>a</sup>n/a – not applicable, not tested because locus 19C was monomorphic in this population sample.