**Table S2. Linkage disequilibrium analysis of *Rhopalosiphum padi* populations in central Chile**.*P*-value for each locus pair across all populations(Fisher's method). Analyses were performed in the dataset without repeated genotypes (one single copy per MLG). Asterisks indicates the *P*-values that are below the significance value 0.0033, obtained after applying Bonferroni’s correction for multiple tests.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Locus pair** | | **χ2** | **df** | ***P*-Value** |
| *R550* | *R5138* | 38.32 | 16 | 0.0015 \* |
| *R550* | *R3171* | 27.78 | 16 | 0.0395 |
| *R5138* | *R3171* | 22.51 | 16 | 0.1221 |
| *R550* | *R273* | 28.62 | 16 | 0.0257 |
| *R5138* | *R273* | 42.14 | 18 | 0.0010 \* |
| *R3171* | *R273* | 34.24 | 12 | 0.0006 \* |
| *R550* | *R510* | 13.19 | 18 | 0.7805 |
| *R5138* | *R510* | 11.90 | 20 | 0.9196 |
| *R3171* | *R510* | 11.08 | 20 | 0.9427 |
| *R273* | *R510* | 26.75 | 18 | 0.0824 |
| *R550* | *R529b* | 28.12 | 16 | 0.0279 |
| *R5138* | *R529b* | 43.31 | 18 | 0.0007 \* |
| *R3171* | *R529b* | 33.35 | 14 | 0.0029 \* |
| *R273* | *R529b* | 54.23 | 18 | 0.0001 \* |
| *R510* | *R529b* | 31.27 | 18 | 0.0209 |