**Table S5.** Genetic diversity parameters, fixation index, and their (SE) for three eastern white pine second-growth populations from Quebec based on 44 SNP markers.

| Population         | Population abbreviation | $P$         | $A$       | $A_E$      | $H_o$      | $H_E$      | $F$        |
|--------------------|-------------------------|-------------|-----------|------------|------------|------------|------------|
| Cap Tourmente      | QCCT                    | 61.4 (6.5)  | 1.61 (0.07) | 1.35 (0.05) | 0.266 (0.045) | 0.206 (0.030) | -0.186 (0.063) |
| Saint Renyold      | QCSR                    | 79.6 (6.6)  | 1.80 (0.06)  | 1.33 (0.05)  | 0.240 (0.040) | 0.206 (0.027) | 0.002 (0.073)  |
| Saint Stanilis     | QCSS                    | 59.1 (6.7)  | 1.59 (0.07)  | 1.31 (0.05)  | 0.243 (0.043) | 0.186 (0.029) | -0.213 (0.056) |
|                    | Overall mean            | 66.7 (6.5)  | 1.67 (0.04)  | 1.33 (0.03)  | 0.250 (0.024) | 0.199 (0.016) | -0.119 (0.038) |

$P$, percentage of loci polymorphic; $A$, number of alleles per locus; $A_E$, effective number of alleles per locus; $H_o$, observed heterozygosity; $H_E$, expected heterozygosity; and $F$, fixation index.