**S4 File. Genetic diversity and fine-scale spatial genetic structure statistics in *Symphonia globulifera* based on different groups of SSRs.**

Table S4.1. Genetic diversity and fine-scale spatial genetic structure statistics in *Symphonia globulifera* in a subset of loci corresponding to the three nuclear SSRs used in Paracou [1].n, sample size for SSR data; *A*, mean number of alleles per locus; *A*R, allelic richness or number of alleles expected in a sample of 34 individuals and standard deviation; *H*E, expected heterozygosity; *F*IS, fixation index; DC, number of distance classes; 1st DC, maximum distance of the first class (m); *F*ij-intra, intra individual kinship coefficient; *F*ij(1), average kinship coefficient of the first distance class; *Sp,* intensity of FSGS and *P*-value of one-sided test of the regression slope *b*; *b* mean jacknife ± SE, jackknife mean of *b* and standard error. ns, not significant; \*\*\*, *P*≤0.001; \*\*, *P*≤0.01; \*, *P*≤0.05.

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| Population | n | SSR | *A* | *A*R(SD) | *H*E | *F*IS | DC | 1st DC (m) | *Fij-intra* | *Fij(1)* | *Sp* | *b* mean jackknife±SE |
| BCI | 147 | 3 | 5.84 | 8.09 (2.60) | 0.808 | 0.157\*\*\* | 7 | 113 | 0.1538 | 0.0373 | 0.0223\*\*\* | -0.0215±0.0104 |
| Yasuní | 34 | 3 | 4.81 | 8.10 (2.69) | 0.727 | 0.054ns | 10 | 94 | 0.1042 | -0.0634 | 0.0035ns | -0.0038±0.0094 |
| Paracou | 148 | 3 | 9.99 | 12.57 (3.56) | 0.880 | 0.172\*\*\* | 4 | 203 | 0.1709 | 0.0154 | 0.0090\*\*\* | -0.0088±0.0029 |
| Ituberá | 85 | 3 | 3.53 | 5.26 (3.54) | 0.588 | 0.159\*\*\* | 5 | 151 | 0.1564 | 0.0082 | 0.0072\* | -0.0072±0.0045 |
| São Tomé | 42 | 3 | 4.69 | 8.98 (2.96) | 0.769 | 0.178\*\*\* | 6 | 856 | 0.1783 | 0.1135 | 0.0468\*\*\* | -0.0415±0.0166 |
| Nkong Mekak | 70 | 3 | 6.20 | 7.22 (5.94) | 0.729 | 0.205\*\*\* | 5 | 312 | 0.2051 | 0.0272 | 0.0169\*\*\* | -0.0165±0.0052 |
| Mbikiliki | 94 | 3 | 4.71 | 7.13 (3.96) | 0.686 | 0.265\*\*\* | 7 | 240 | 0.2650 | 0.0989 | 0.0372\*\*\* | -0.0335±0.0196 |

Table S4.2. Genetic diversity and fine-scale spatial genetic structure statistics in *Symphonia globulifera* based a) on 18 genic nuclear SSRs, data from Olsson *et al.* [2], b). on 3-5 genic nuclear SSRs and subsets of ca. 30 individuals. n, sample size for SSR data; *A*, mean number of alleles per locus; *A*R, allelic richness or number of alleles expected in a sample of 30 individuals and standard deviation; *H*E, expected heterozygosity; *F*IS, fixation index; DC, number of distance classes; 1st DC, maximum distance of the first class (m); *F*ij-intra, intra individual kinship coefficient; *F*ij(1), average kinship coefficient of the first distance class; *Sp,* intensity of FSGS and *P*-value of one-sided test of the regression slope *b*; *b* mean jacknife ± SE, jackknife mean of *b* and standard error. ns, not significant; \*\*\*, *P*≤0.001; \*\*, *P*≤0.01; \*, *P*≤0.05, ., *P*≤0.1,.

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| **a** Population | n | SSR | *A* | *A*R(SD) | *H*E | *F*IS | DC | 1st DC (m) | *Fij-intra* | *Fij(1)* | *Sp* | *b* mean jackknife±SE |
| Paracou | 32 | 18 | 4.89 | 2.77(2.06) | 0.491 | 0.102\* | 4 | 378 | 0.1015 | -0.0072 | 0.0018. | -0.0018±0.0012 |
| Ituberá | 31 | 18 | 2.94 | 2.59(0.96) | 0.370 | -0.291\*\*\* | 4 | 178 | -0.2828 | -0.0025 | -0.0021ns | 0.0021±0.0042 |
| São Tomé | 30 | 18 | 3.24 | 2.99(2.35) | 0.341 | 0.123\*\* | 4 | 1371 | 0.0841 | 0.0470 | 0.0339\*\*\* | -0.0323±0.0081 |
| Nkong Mekak | 31 | 18 | 3.83 | 3.29(1.47) | 0.457 | -0.167\*\*\* | 7 | 204 | -0.1721 | 0.0106 | 0.0072. | -0.0071±0.0057 |

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| **b** Population | n | SSR | *A* | *A*R(SD) | *H*E | *F*IS | DC | 1st DC (m) | *Fij-intra* | *Fij(1)* | *Sp* | *b* mean jackknife±SE |
| Paracou | 32 (subset different from Olsson et al. 2016) | 3 | 14.67 | 11.28(4.42) | 0.865 | 0.169\*\*\* | 4 | 203 | 0.1676 | -0.0022 | 0.0067. | -0.0064±0.0065 |
| Ituberá | 31 (same as Olsson et al. 2016) | 5 | 8.8 | 6.98(5.23) | 0.622 | 0.108\*\* | 4 | 178 | 0.1051 | 0.0070 | 0.0055ns | -0.0049±0.0031 |
| São Tomé | 30 (same as Olsson et al. 2016) | 5 | 11.6 | 9.42(3.06) | 0.824 | 0.211\*\*\* | 4 | 1371 | 0.2137 | 0.0707 | 0.0475\*\*\* | -0.0438±0.0139 |
| Nkong Mekak | 31 (same as Olsson et al. 2016) | 5 | 11.4 | 9.24(5.46) | 0.807 | 0.163\*\*\* | 7 | 204 | 0.1631 | 0.0136 | 0.0088. | -0.0088±0.0042 |

**Literature cited**

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