**Table S1.** Allele frequencies for 11 microsatellite loci of nine Brazilian populations of *Drosophila sturtevanti*. Population descriptions are in the Material and Methods section. n = number of individuals genotyped

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Locus | Populations | | | | | | | | |
| Alleles | AGU | RDI | PIR | SDC | PCG | MAT | NGR | PRA | GUA |
| Dsturt\_B | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 15 | n = 15 | n = 15 | n = 11 |
| 1 | 0.0333 | --- | 0.1000 | 0.0333 | 0.0333 | 0.0333 | 0.0333 | 0.0333 | --- |
| 2 | 0.9667 | 1.0000 | 0.9000 | 0.9667 | 0.9667 | 0.9667 | 0.9667 | 0.9667 | 1.0000 |
| Dsturt\_D | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 15 | n = 15 | n = 15 | n = 08 |
| 1 | --- | --- | 0.0500 | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | 0.0333 | --- | 0.0333 | --- | 0.0333 | --- |
| 3 | 1.0000 | 1.0000 | 0.9500 | 0.9667 | 1.0000 | 0.9667 | 1.0000 | 0.9667 | 1.0000 |
| Dsturt\_E | n = 15 | n = 14 | n = 10 | n = 15 | n = 13 | n = 15 | n = 15 | n = 15 | n = 10 |
| 1 | --- | 0.0357 | 0.0500 | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | 0.0500 | --- | --- | --- | 0.1333 | --- | 0.1000 |
| 3 | 0.1667 | --- | --- | 0.0333 | --- | --- | 0.1667 | --- | 0.3000 |
| 4 | 0.3333 | 0.1786 | --- | 0.1000 | --- | 0.2667 | 0.1333 | --- | 0.1500 |
| 5 | 0.1667 | 0.1429 | 0.4500 | 0.5333 | 0.2308 | 0.3000 | 0.1333 | 0.2000 | 0.2000 |
| 6 | --- | 0.4643 | 0.1000 | 0.0667 | --- | 0.1333 | 0.1000 | 0.0667 | --- |
| 7 | 0.0667 | --- | --- | 0.0333 | 0.6154 | 0.2000 | 0.3000 | 0.3333 | 0.1000 |
| 8 | --- | 0.0357 | 0.0500 | 0.0333 | 0.0769 | 0.0333 | 0.0333 | 0.1667 | 0.0500 |
| 9 | 0.2667 | 0.0714 | 0.3000 | 0.0333 | 0.0385 | --- | --- | 0.0333 | 0.1000 |
| 10 | --- | 0.0714 | --- | 0.1667 | 0.0385 | 0.0667 | --- | 0.1000 | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | 0.1000 | --- |
| Dsturt\_G | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 15 | n = 14 | n = 15 | n = 11 |
| 1 | --- | --- | 0.0500 | 0.0667 | --- | --- | 0.0714 | --- | --- |
| 2 | --- | 0.0667 | 0.1000 | 0.1667 | 0.0333 | --- | --- | --- | --- |
| 3 | --- | 0.1333 | 0.3000 | 0.1000 | 0.1000 | --- | 0.0714 | --- | 0.1364 |
| 4 | --- | 0.0667 | 0.3000 | 0.1000 | 0.0333 | --- | 0.2143 | 0.1333 | --- |
| 5 | 0.0667 | --- | 0.1500 | 0.2333 | --- | --- | 0.1071 | 0.1000 | --- |
| 6 | 0.0667 | --- | --- | 0.2000 | 0.3667 | 0.0667 | 0.2857 | 0.1667 | 0.4091 |
| 7 | 0.1000 | 0.2333 | 0.1000 | 0.1000 | 0.2333 | 0.1333 | 0.1786 | 0.0667 | 0.1364 |
| 8 | 0.4333 | 0.3667 | --- | --- | 0.2000 | --- | 0.0357 | 0.4333 | 0.3182 |
| 9 | 0.3000 | 0.1333 | --- | --- | 0.0333 | 0.5000 | 0.0357 | 0.1000 | --- |
| 10 | 0.0333 | --- | --- | --- | --- | 0.0667 | --- | --- | --- |
| 11 | --- | --- | --- | 0.0333 | --- | 0.1333 | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | 0.1000 | --- | --- | --- |
| Dsturt\_I | n = 15 | n = 14 | n = 10 | n = 11 | n = 04 | n = 15 | n = 15 | n = 15 | n=04 |
| 1 | 0.0667 | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 0.2000 | 0.1429 | 0.1000 | 0.0909 | --- | 0.1333 | 0.0667 | 0.0667 | --- |
| 3 | 0.2000 | --- | 0.1000 | 0.1818 | --- | 0.0667 | 0.3333 | 0.1333 | --- |
| 4 | --- | --- | --- | --- | --- | 0.2667 | 0.1333 | 0.1333 | 0.2500 |
| 5 | 0.3333 | --- | 0.3000 | --- | --- | 0.2667 | 0.2667 | 0.2000 | --- |
| 6 | 0.2000 | 0.7857 | 0.2000 | 0.1818 | --- | 0.0667 | --- | --- | --- |
| 7 | --- | 0.0714 | 0.1000 | 0.2727 | 0.5000 | 0.0667 | 0.0667 | 0.4000 | 0.5000 |
| 8 | --- | --- | 0.2000 | 0.2727 | --- | --- | 0.1333 | 0.0667 | --- |
| 9 | --- | --- | --- | --- | 0.5000 | 0.0667 | --- | --- | 0.2500 |
| 10 | --- | --- | --- | --- | --- | 0.0667 | --- | --- | --- |
| Dsturt\_J | n = 15 | n = 15 | n = 10 | n = 15 | n = 13 | n = 15 | n = 15 | n = 15 | n = 11 |
| 1 | --- | 0.2000 | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | 0.2000 | --- | --- | --- | --- | 0.2667 | 0.0667 | --- |
| 3 | 0.1333 | 0.6000 | --- | 0.3667 | 0.0667 | 0.0667 | 0.0667 | 0.1333 | 0.0909 |
| 4 | 0.5667 | --- | 0.1000 | 0.3333 | 0.1667 | 0.3667 | 0.2333 | 0.3667 | 0.2727 |
| 5 | 0.2333 | --- | 0.2000 | 0.1667 | 0.3000 | 0.1333 | 0.1333 | 0.1667 | 0.3182 |
| 6 | --- | --- | 0.2500 | --- | 0.3000 | 0.2667 | 0.1333 | 0.0333 | 0.1818 |
| 7 | 0.0667 | --- | 0.3000 | 0.1333 | --- | --- | --- | --- | 0.0909 |
| 8 | --- | --- | --- | --- | 0.1667 | 0.1000 | 0.1333 | --- | --- |
| 9 | --- | --- | 0.1500 | --- | --- | 0.0333 | --- | 0.0667 | 0.0455 |
| 10 | --- | --- | --- | --- | --- | 0.0333 | --- | 0.1667 | --- |
| 11 | --- | --- | --- | --- | --- | --- | 0.0333 | --- | --- |
| Dsturt\_K | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 15 | n = 15 | n = 13 | n = 10 |
| 1 | --- | --- | 0.1500 | --- | --- | --- | --- | --- | --- |
| 2 | 0.3333 | --- | 0.2000 | --- | 0.0385 | --- | --- | --- | --- |
| 3 | 0.1667 | 0.1667 | 0.1000 | 0.0667 | 0.0769 | 0.2000 | 0.3000 | 0.1538 | 0.0500 |
| 4 | 0.2667 | 0.1000 | 0.3000 | 0.3000 | 0.1923 | 0.1667 | 0.2333 | 0.3077 | 0.2000 |
| 5 | 0.1000 | 0.1333 | 0.1500 | 0.2333 | 0.3846 | 0.3000 | 0.1333 | 0.1154 | --- |
| 6 | 0.0333 | 0.2667 | 0.1000 | 0.2333 | 0.0769 | 0.1000 | 0.1000 | 0.1538 | 0.6500 |
| 7 | 0.1000 | 0.3333 | --- | --- | 0.1154 | 0.0333 | 0.1333 | 0.1538 | 0.1000 |
| 8 | --- | --- | --- | 0.1667 | 0.1154 | 0.2000 | 0.1000 | 0.1154 | --- |
| Dsturt\_L | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 15 | n = 15 | n = 14 | n = 08 |
| 1 | --- | --- | --- | 0.0333 | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | 0.0667 | 0.0333 | --- | --- | --- | --- |
| 3 | 0.0667 | --- | --- | 0.1000 | --- | 0.0667 | 0.3000 | --- | --- |
| 4 | 0.3667 | --- | --- | 0.3667 | 0.1333 | 0.3000 | 0.0667 | 0.0714 | --- |
| 5 | 0.0667 | --- | --- | 0.1667 | 0.1000 | 0.3667 | 0.2000 | 0.1071 | 0.2500 |
| 6 | 0.1333 | --- | 0.2000 | 0.0333 | 0.3000 | 0.1667 | 0.1667 | 0.1786 | 0.1250 |
| 7 | 0.1000 | 0.5000 | 0.3000 | 0.1000 | 0.0667 | --- | 0.1000 | 0.1429 | 0.3750 |
| 8 | 0.1333 | 0.1333 | 0.4000 | 0.0667 | 0.1667 | 0.1000 | 0.0333 | 0.1786 | 0.0625 |
| 9 | --- | 0.3667 | --- | 0.0333 | 0.0667 | --- | 0.0333 | 0.1071 | 0.1250 |
| 10 | 0.0667 | --- | 0.1000 | 0.0333 | 0.1000 | --- | 0.0333 | 0.1429 | --- |
| 11 | 0.0667 | --- | --- | --- | 0.0333 | --- | --- | --- | 0.0625 |
| 12 | --- | --- | --- | --- | --- | --- | --- | 0.0357 | --- |
| 13 | --- | --- | --- | --- | --- | --- | 0.0667 | 0.0357 | --- |
| Dsturt\_M | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 15 | n = 15 | n = 15 | n = 11 |
| 1 | 0.1667 | --- | --- | --- | --- | --- | --- | --- | 0.1364 |
| 2 | 0.1667 | 0.0333 | --- | --- | 0.0667 | 0.0667 | 0.0667 | 0.1000 | 0.4091 |
| 3 | 0.4333 | 0.2333 | 0.2000 | 0.1667 | 0.3333 | 0.2000 | 0.2667 | 0.0667 | 0.1818 |
| 4 | 0.0333 | 0.2333 | 0.2500 | 0.1333 | 0.1667 | 0.1667 | 0.0667 | 0.1667 | --- |
| 5 | 0.1667 | 0.3000 | --- | 0.1333 | 0.1667 | 0.2667 | 0.5333 | 0.1000 | 0.2273 |
| 6 | --- | --- | 0.4500 | 0.2000 | 0.1000 | 0.2667 | 0.0333 | 0.2000 | --- |
| 7 | 0.0333 | 0.1667 | 0.1000 | 0.2333 | 0.1000 | 0.0333 | 0.0333 | 0.2667 | 0.0455 |
| 8 | --- | 0.0333 | --- | 0.1333 | 0.0333 | --- | --- | 0.0667 | --- |
| 9 | --- | --- | --- | --- | 0.0333 | --- | --- | 0.0333 | --- |
| Dsturt\_N | n = 15 | n = 15 | n = 10 | n = 15 | n = 12 | n = 15 | n = 14 | n = 15 | n = 10 |
| 1 | --- | 0.0667 | --- | --- | --- | --- | --- | --- | 0.0500 |
| 2 | 0.0667 | 0.0667 | --- | 0.0667 | --- | --- | --- | 0.0667 | 0.1000 |
| 3 | --- | 0.2000 | --- | 0.1333 | 0.0833 | --- | 0.0357 | --- | 0.1500 |
| 4 | --- | 0.1333 | --- | 0.2000 | 0.2083 | --- | 0.0714 | --- | --- |
| 5 | --- | 0.1667 | --- | --- | 0.0833 | --- | --- | 0.1333 | --- |
| 6 | --- | 0.0333 | --- | 0.1000 | --- | --- | 0.2143 | 0.1000 | --- |
| 7 | --- | 0.0667 | --- | 0.0667 | --- | 0.1000 | 0.0714 | 0.1333 | 0.2500 |
| 8 | --- | --- | --- | 0.1667 | 0.2083 | 0.1000 | --- | 0.1000 | --- |
| 9 | 0.0667 | 0.0333 | --- | 0.0667 | 0.2083 | 0.2333 | 0.1786 | --- | 0.2000 |
| 10 | 0.2667 | 0.0333 | 0.3000 | 0.2000 | 0.0833 | --- | 0.0714 | 0.4667 | 0.1000 |
| 11 | 0.1333 | 0.1333 | 0.4000 | --- | --- | 0.1667 | 0.2143 | --- | --- |
| 12 | 0.2667 | --- | 0.0500 | --- | --- | --- | --- | --- | --- |
| 13 | 0.1333 | --- | --- | --- | 0.0417 | 0.1333 | 0.0714 | --- | 0.0500 |
| 14 | 0.0667 | --- | 0.2500 | --- | 0.0833 | 0.0667 | --- | --- | --- |
| 15 | --- | 0.0667 | --- | --- | --- | 0.1333 | 0.0714 | --- | 0.1000 |
| 16 | --- | --- | --- | --- | --- | 0.0667 | --- | --- | --- |
| Dsturt\_O | n = 15 | n = 15 | n = 10 | n = 15 | n = 15 | n = 14 | n = 15 | n = 15 | n = 10 |
| 1 | --- | --- | --- | 0.0333 | --- | --- | --- | --- | 0.1000 |
| 2 | --- | --- | 0.0500 | 0.0333 | 0.0333 | --- | --- | --- | 0.1500 |
| 3 | 0.1000 | 0.2667 | 0.0500 | --- | 0.1000 | --- | 0.0333 | 0.0667 | --- |
| 4 | --- | 0.2333 | --- | --- | --- | --- | --- | 0.1333 | --- |
| 5 | --- | --- | --- | 0.0333 | --- | 0.1071 | --- | 0.0667 | --- |
| 6 | --- | --- | --- | 0.0667 | --- | 0.0357 | --- | --- | 0.0500 |
| 7 | --- | 0.1000 | 0.3500 | 0.1333 | 0.2667 | --- | --- | 0.0667 | 0.0500 |
| 8 | --- | 0.2333 | 0.1000 | 0.2667 | 0.1000 | --- | 0.0333 | --- | 0.1500 |
| 9 | 0.1333 | 0.1667 | 0.4000 | 0.3000 | 0.1667 | 0.1071 | 0.1333 | 0.0667 | 0.0500 |
| 10 | 0.3667 | --- | 0.0500 | 0.1333 | 0.3000 | 0.2500 | 0.5333 | 0.2667 | 0.2000 |
| 11 | 0.2333 | --- | --- | --- | 0.0333 | 0.2857 | 0.1333 | 0.0333 | --- |
| 12 | 0.1000 | --- | --- | --- | --- | 0.1786 | 0.1333 | 0.2000 | 0.1000 |
| 13 | 0.0677 | --- | --- | --- | --- | 0.0357 | --- | 0.1000 | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | 0.1500 |