**Table A.1.** GenBank accession numbers and sampling information of specimens included in this study.

|  |  |  |  |
| --- | --- | --- | --- |
| GenBank accession | Species name | Location | References |
| AY293365 | *Juglans ailanthifolia* | Japan | Aradhya et al. 2007 |
| AY293379 | *Juglans australis* | Argentina |
| AY293377 | *Juglans californica* | United States |
| AY293367 | *Juglans cathayensis* | Taiwan |
| AY293374 | *Juglans guatemalensis* | Guatemala |
| AY293373 | *Juglans hindsii* | United States |
| AY293371 | *Juglans hopeiensis* | China |
| AY293364 | *Juglans mandshurica* | South Korea |
| AY293372 | *Juglans microcarpa* | United States |
| AY293368 | *Juglans neotropica* | Ecuador |
| AY293380 | *Juglans olanchana* | Mexico |
| AY293370 | *Juglans sigillata* | China |
| MH188298 | *Juglans cinerea* | United States | Zhou et al. 2021 |
| MH188294 | *Juglans nigra* |
| MF167457 | *Juglans cathayensis* | China | Dong et al. 2017 |
| NC035960 | *Juglans cinerea* |
| MF167460 | *Juglans major* | United States |
| NC035966 | *Juglans major* |
| MF167461 | *Juglans mandshurica* | China |
| MF167461 | *Juglans mandshurica* |
| NC031373 | *Juglans microcarpa* |
| NC035965 | *Juglans hindsii* |
| NC035967 | *Juglans nigra* |
| MF167464 | *Juglans regia* |
| MF167463 | *Juglans regia* |
| NC028617 | *Juglans regia* |
| MF167465 | *Juglans sigillata* |
| MN397935 | *Juglans regia* | Spain | Peng et al. 2017 |
| NC 047415 | *Juglans cathayensis* | China | Ma et al. 2020 |
| MN397934 | *Juglans regia* | United States  | Teske et al., 2019 |
| MN397933 | *Juglans regia* |
| MN397932 | *Juglans regia* |
| MN397929 | *Juglans regia* |
| MN397927 | *Juglans regia* |
| MN397926 | *Juglans regia* |
| MN397924 | *Juglans regia* |
| MN397925 | *Juglans regia* | China |
| MN397931 | *Juglans regia* |
| MN397928 | *Juglans regia* |
| MN397930 | *Juglans regia* |
| NC046433 | *Juglans alianthifolia* | China | Hu et al., 2017 |
| OR134831 | *Juglans cinérea* |
| NC033894 | *Juglans hopeiensis* |
| NC033893 | *Juglans hopeiensis* |
| NC033892 | *Juglans mandshurica* |
| OP837962 | *Juglans mandshurica* |
| OP837963 | *Juglans microcarpa* |
| OP837963 | *Juglans microcarpa* |
| OP837963 | *Juglans microcarpa* |
| OP837964 | *Juglans regia* |

**Table A.2.** Group, haplotypes, population, and GenBank access numbers of specimens of *Juglans* *neotropica* included in this study.

|  |  |  |  |
| --- | --- | --- | --- |
| Group | Haplotype | Populations | GenBank accession |
|  I | H1 | Argentina | AY293379 |
| Ecuador | AY293368 |
| Levanto | PP349511-PP349510 PP349521-PP349509 PP349512-PP349513 PP349508-PP349507 PP349491-PP349490 |
| Leymebamba | PP349489- PP349535-PP349487- PP349516-PP349480-PP349505 |
| Luya | PP349519- PP349531-PP349498- PP349518-PP349497-PP349517-PP349496 |
| Molinopampa  | PP349495-PP349494-PP349493-PP349492-PP349486PP349476-PP349502 |
| Nogalcucho | PP349527-PP349528-PP349500-PP349481 |
| San Isidro de Maino | PP349506-PP349514-PP349501-PP349504-PP349503 |
| Tambolic | PP349463 |
| Yerbabuena | PP349472-PP349471-PP349470-PP349468-PP349467- PP349465 |
| H2 | Leymebamba  | PP349488-PP349475-PP349474 |
| Luya | PP378486 |
| Molinopampa | PP349534-PP349473 |
| Nogalcucho | PP349524-PP349525-PP349526 |
| Tambolic | PP349464 |
| Yerbabuena | PP349469-PP349466-PP349478-PP349477 |
| H3 | Levanto | PP349477 |
| H4 | Leymebamba | PP349479 |
| H5 | Nogalcucho | PP349529 |
| H8 | Luya | PP349532 |
| H12 | Levanto | PP349523 |
| II | H6 | Molinopampa | PP349533 |
| H10 | Luya | PP349520 |
|  III | H7 | Luya | PP349499 |
| H9 | PP349515 |
| H11 | PP349530 |
| IV | H14 | China | NC046433, MF167461, NC033894, NC033892, OP837962, AY293371 |
| South Korea | AY293364 |
| Japan | AY293365 |
| H18 | China | NC047415, MF167457, NC033893 |
| Taiwan | AY293367 |
|  V | H13 | United States | MH188296 |
| H15 |  United States | MN397929 |
| H16 | China | NC035960 |
| United States | AY293376 |
| H17 | United States | AY293377 |
| H19 | China | NC035967, NC035965, OR134831, MN397931, MN397930, MN397928, MN397925, MF167465, MF167464, MF167463, OP837963, NC031373, OP837964, AY293370 |
| Spain | MN397935 |
| United States | MH188298, MH188294, NC035966, AY293373, MN397934, MN397933, MN397932, MN397927, MN397926, NC028617, AY293369, MN397924, AY293372 |
| Guatemala | AY293374 |
| Mexico | AY293380 |

**Table A.3.** Global fixation index (Fst) of the walnut populations in the Amazonas region.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Populations | Levanto | Leymebamba | Luya | Molinopampa | Nogalcucho | San Isidro de Maino | Tambolic | Yerbabuena |
| Levanto | 0.00000 |  |  |  |  |  |  |  |
| Leymebamba | 0.10052 | 0.00000 |  |  |  |  |  |  |
| Luya | 0.00938 | 0.06955 | 0.00000 |  |  |  |  |  |
| Molinopampa | 0.02527 | 0.10077 | -0.09968 | 0.00000 |  |  |  |  |
| Nogalcucho | 0.07791 | 0.07322 | -0.00938 | -0.02527 | 0.00000 |  |  |  |
| San Isidro de Maino | -0.01934 | 0.08939 | -0.08450 | 0.08125 | -0.05803 | 0.00000 |  |  |
| Tambolic | -0.03357 | 0.04409 | -0.02639 | -0.03879 | 0.03442 | -0.04238 | 0.00000 |  |
| Yerbabuena | -0.09091 | -0.15559 | -0.37748 | -0.34328 | -0,33397 | -0.30178 | -0.15559 | 0.00000 |