Table S4 Comparison of genetic diversity and population differentiation in different gymnosperm species.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Species | Family | *N*a | *H*e | *H*o | PIC | *PPL* | *F*st | Reference |
| EST-SSRs |  |  |  |  |  |  |  |  |
| *Pinus bungeana* | Pinaceae |  | 0.1994 | 0.2214 |  | 8.14% | 0.2152 | *Duan et al., 2017* |
| *Pinus dabeshanensis* | Pinaceae | 3.23 | 0.458 | 0.481 |  |  | 0.028 | *Xiang et al., 2015* |
| *Amentotaxus argotaenia* | Taxaceae | 2.348 | 0.394 | 0.297 | 0.328 | 100% |  | *Li et al., 2016* |
| *Amentotaxus formosana* | Taxaceae | 1.783 | 0.1993 | 0.053 | 0.1693 | 60.87% |  | *Li et al., 2016* |
| *Amentotaxus yunnanensis* | Taxaceae | 2.478 | 0.3343 | 0.2683 | 0.291 | 73.91% |  | *Li et al., 2016* |
| *Amentotaxus poilanei* | Taxaceae | 2.174 | 0.347 | 0.359 | 0.291 | 82.61% |  | *Li et al., 2016* |
| *Amentotaxus argotaenia* | Taxaceae | 2.682 | 0.39 | 0.25 | 0.455 | 57.89% | 0.28198 | This study |
| SSRs |  |  |  |  |  |  |  |  |
| *Abies ziyuanensis* | Pinaceae |  | 0.337 | 0.319 |  | 62.50% | 0.25 | *Tang et al., 2008* |
| *Pinus krempfii* | Pinaceae |  | 0.229 | 0.303 |  | 51.47% | 0.119 | *Phong et al., 2015* |
| *Pinus strobus* | Pinaceae |  | 0.802 | 0.704 |  |  | 0.084 | *Mehes, Nkongolo & Michael, 2009* |
| *Pinus monticola* | Pinaceae |  | 0.808 | 0.683 |  |  | 0.057 | *Mehes, Nkongolo & Michael, 2009* |
| *Pinus sylvestris* | Pinaceae |  | 0.787 | 0.947 |  |  | 0.007 | *Pazouki et al., 2016* |
| *Podocarpus sellowii* | Podocarpaceae |  | 0.302 | 0.393 |  | 42.86% | 0.259 | *Dantas et al., 2015* |
| *Cephalotaxus oliveri* | Cephalotaxaceae |  | 0.413 | 0.502 |  | 68.42% | 0.639 | *Pan et al., 2011* |
| *Amentotaxus argotaenia* | Taxaceae |  | 0.61 | 0.12 |  |  | 0.22 | *Ge et al., 2015* |
| *Amentotaxus yunnanensis* | Taxaceae |  | 0.36 | 0.23 |  |  | 0.20 | *Ge et al., 2015* |
| *Amentotaxus argotaenia* | Taxaceae | 5.304 | 0.66 | 0.859 | 0.707 | 82.14% | 0.1304 | *Huang et al., 2018* |
| *Amentotaxus yunnanensis* | Taxaceae | 6.389 | 0.701 | 0.915 | 0.651 | 100% |  | *Huang et al., 2018* |
| *Taxus yunnanensis* | Taxaceae |  | 0.37 | 0.107 |  |  | 0.196 | *Miao et al., 2014* |
| *Taxus wallichiana var. mairei* | Taxaceae |  | 0.538 | 0.39 |  |  | 0.159 | *Zhang & Zhou, 2013* |

*N*a, number of alleles per locus; *H*e, expected heterozygosity; *H*o, observed heterozygosity; PIC, polymorphism information content; *PPL*, percentage of polymorphic loci; *F*st, genetic differentiation.

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