**Table S1. List of the 139 macadamia accessions used in this study.**

| No. | Accession name | Origin | Type |
|---|---|---|---|
| 2 | Guang 11 | China | Chinese cultivar |
| 3 | HAES246 | Hawaii | Introduced cultivar |
| 4 | HAES294 | Hawaii | Introduced cultivar |
| 5 | HAES333 | Hawaii | Introduced cultivar |
| 6 | HAES344 | Hawaii | Introduced cultivar |
| 7 | HAES508 | Hawaii | Introduced cultivar |
| 8 | HAES660 | Hawaii | Introduced cultivar |
| 9 | HAES695 | Hawaii | Introduced cultivar |
| 10 | HAES741 | Hawaii | Introduced cultivar |
| 12 | HAES762 | Hawaii | Introduced cultivar |
| 13 | HAES772 | Hawaii | Introduced cultivar |
| 15 | HAES780 | Hawaii | Introduced cultivar |
| 16 | HAES783 | Hawaii | Introduced cultivar |
| 17 | HAES788 | Hawaii | Introduced cultivar |
| 18 | HAES789 | Hawaii | Introduced cultivar |
| 19 | HAES790 | Hawaii | Introduced cultivar |
| 20 | HAES792 | Hawaii | Introduced cultivar |
| 21 | HAES800 | Hawaii | Introduced cultivar |
| 22 | HAES812 | Hawaii | Introduced cultivar |
| 23 | HAES814 | Hawaii | Introduced cultivar |
| 24 | HAES815 | Hawaii | Introduced cultivar |
| 25 | HAES816 | Hawaii | Introduced cultivar |
| 26 | HAES819 | Hawaii | Introduced cultivar |
| 29 | HAES828 | Hawaii | Introduced cultivar |
| 32 | HAES842 | Hawaii | Introduced cultivar |
| 34 | HAES849 | Hawaii | Introduced cultivar |
| 35 | HAES851 | Hawaii | Introduced cultivar |
| 36 | HAES854 | Hawaii | Introduced cultivar |
| 39 | HAES863 | Hawaii | Introduced cultivar |
| 41 | HAES900 | Hawaii | Introduced cultivar |
| 42 | HAES904 | Hawaii | Introduced cultivar |
| 44 | HAES915 | Hawaii | Introduced cultivar |
| 45 | HAES918 | Hawaii | Introduced cultivar |
| 46 | HAES932 | Hawaii | Introduced cultivar |
| 50 | D | Australia | Introduced cultivar |
| 53 | T | Australia | Introduced cultivar |
| 60 | H3 | Hawaii | Introduced cultivar |
| 61 | AH-H | Hawaii | Introduced cultivar |
| 62 | HW1 | Hawaii | Introduced cultivar |
| 63 | Nanya 1 | China | Chinese cultivar |
| 65 | 800 TCS | China | Tissue-cultured seedling |
| 66 | Guire 1 | China | Chinese cultivar |
| 67 | HY01 | Hawaii | Introduced cultivar |
| 68 | AY02 | Australia | Introduced cultivar |
| 69 | AY03 | Australia | Introduced cultivar |
| 70 | AY04 | Australia | Introduced cultivar |
| 73 | AY06 | Australia | Introduced cultivar |
| 74 | AY07 | Australia | Introduced cultivar |
| 75 | AY08 | Australia | Introduced cultivar |
| 76 | AY09 | Australia | Introduced cultivar |
| 77 | AY10 | Australia | Introduced cultivar |
| 79 | IY01 | Australia | Introduced cultivar |
| 80 | AY12 | Australia | Introduced cultivar |
| 81 | AY13 | Australia | Introduced cultivar |
| 82 | AY14 | Australia | Introduced cultivar |
| 83 | AY15 | Australia | Introduced cultivar |
| 85 | AY16 | Australia | Introduced cultivar |

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|---|---|---|---|
| 86 | AY17 | Australia | Introduced cultivar |
| 87 | AY18 | Australia | Introduced cultivar |
| 88 | AY19 | Australia | Introduced cultivar |
| 89 | HY02 | Australia | Introduced cultivar |
| 90 | AY20 | Australia | Introduced cultivar |
| 91 | AY21 | Australia | Introduced cultivar |
| 92 | Huanan 788 | China | Seedling selection |
| 95 | C-H | Australia | *M. tetraphylla* |
| 96 | AY24 | Australia | Introduced cultivar |
| 97 | AY23 | Australia | Introduced cultivar |
| 98 | Nanya 2 | China | Chinese cultivar |
| 100 | VN01 | Australia | Introduced cultivar |
| 101 | Cold resistant | China | Seedling selection |
| 102 | JH05 | China | Seedling selection |
| 103 | JH07 | China | Seedling selection |
| 104 | JH08 | China | Seedling selection |
| 105 | JH09 | China | Seedling selection |
| 108 | JH13 | China | Seedling selection |
| 109 | JH14 | China | Seedling selection |
| 110 | JH15 | China | Seedling selection |
| 112 | JH18 | China | Seedling selection |
| 113 | JH19 | China | Seedling selection |
| 114 | JH21 | China | Seedling selection |
| 115 | JH22 | China | Seedling selection |
| 116 | JH23 | China | Seedling selection |
| 117 | JH24 | China | Seedling selection |
| 119 | JH26 | China | Seedling selection |
| 120 | JH27 | China | Seedling selection |
| 121 | JH28 | China | Seedling selection |
| 123 | JH31 | China | Seedling selection |
| 125 | JH34 | China | Seedling selection |
| 126 | JH35 | China | Seedling selection |
| 132 | JH41 | China | Seedling selection |
| 133 | JH42 | China | Seedling selection |
| 134 | JH44 | China | Seedling selection |
| 137 | JH47 | China | Seedling selection |
| 138 | JH48 | China | Seedling selection |
| 139 | JH50 | China | Seedling selection |
| 141 | JH52 | China | Seedling selection |
| 142 | JH53 | China | Seedling selection |
| 143 | JH54 | China | Seedling selection |
| 146 | JH57 | China | Seedling selection |
| 147 | JH58 | China | Seedling selection |
| 154 | JH65 | China | Seedling selection |
| 156 | JH67 | China | Seedling selection |
| 157 | JH69 | China | Seedling selection |
| 158 | JH70 | China | Seedling selection |
| 159 | JH71 | China | Seedling selection |
| 161 | JH73 | China | Seedling selection |
| 162 | JH74 | China | Seedling selection |
| 163 | JH75 | China | Seedling selection |
| 164 | JH76 | China | Seedling selection |
| 165 | JH77 | China | Seedling selection |
| 166 | JH78 | China | Seedling selection |
| 169 | JHG1 | China | Seedling selection |
| 170 | JHG2 | China | Seedling selection |
| 173 | JHG6 | China | Seedling selection |
| 174 | Lei1 | China | Seedling selection |
| 177 | Lei4 | China | Seedling selection |
| 178 | Lei5 | China | Seedling selection |

| | | | |
|---|---|---|---|
| 179 | Lei6 | China | Seedling selection |
| 184 | MD1 | China | Seedling selection |
| 186 | MD3 | China | Seedling selection |
| 187 | MD4 | China | Seedling selection |
| 189 | Ke2 | China | Seedling selection |
| 190 | Ke3 | China | Seedling selection |
| 194 | Bai2 | China | Seedling selection |
| 200 | Yukun1 | China | Seedling selection |
| 202 | DS1 | China | Chinese cultivar |
| 205 | YXC1 | China | Seedling selection |
| 206 | YXC3 | China | Seedling selection |
| 207 | YXC4 | China | Seedling selection |
| 208 | MT5 | China | Seedling selection |
| 209 | MT20 | China | Seedling selection |
| 211 | WD31 | China | Seedling selection |
| 212 | WD37 | China | Seedling selection |
| 215 | MT10 | China | Seedling selection |
| 218 | WD34 | China | Seedling selection |
| 223 | HY03 | Hawaii | Introduced cultivar |
| 234 | JH3 | China | Seedling selection |
| 242 | 38 seedling 2 | China | Seedling selection |
| 251 | C 4 | Australia | *M. tetraphylla* |

Note: All accessions belong to the genus *Macadamia*. Species names are given only where the species identity has been confirmed; for the remaining accessions, species assignment is under further investigation.