**Table 1. Summary of pan-genomes**

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| **Species** | **Pan-genome** | ***de novo* genomes generated** |
| *Arabidopsis thaliana* | Glick *et al*., 2021, Mol. Ecol. Resour. | 15 |
| *Oryza sativa; O. glaberrima* | Qin *et al*., 2021, Cell | 31 |
| *O. barthii;O. glaberrima;O. rufipogon;O. sativa* | Shang *et al*., 2022, Cell Res. | 251 |
| *O. rufipogon;O. sativa* | Zhang *et al*., 2022, Genome Res. | 88 |
| *Raphanus raphanistrum;R. raphanistrumm x R. sativus;R. sativus* | Zhang *et al*., 2021, Mol. Plant | 11 |
| *Brassica rapa* | Cai *et al*., 2021, Genome Biol. | 16 |
| *Brassica napus* | Cui *et al*., 2023, Plant Commun. | 11 |
| *Cucumis sativus* | Li *et al*., 2022, Nature Commun. | 11 |
| *Cucumis melo* | Oren *et al*., 2022, Plant J. | 25 |
| *Vigna unguiculata* | Liang *et al*., 2023, Plant Genome | 7 |
| *Pisum sativum* | Yang *et al*., 2022, Nat. Genet. | 1 |
| *Glycine cyrtoloba;G. dolichocarpa;G. falcata;G. stenophita;G. syndetika;G. tomentella* | Zhuang *et al*., 2022, Nat. Plants | 6 |
| *Gossypium anomalum;G. bickii;G. herbaceum;G. longicalyx;G. stocksii;G. sturtianum* | Wang *et al*., 2022, Nat. Genet. | 7 |
| *Gossypium hirsutum* | Li *et al*., 2021, Genome Biol. | 10 |
| *Zea mays* | Wang et al., 2023, Nat. Genet. | 12 |
| *Zea mays* | Hufford *et al*., 2021, Science | 26 |
| *Setaria italica* | He *et al*., 2023, Nat. Genet. | 110 |
| *Pennisetum glaucum* | Yan *et al*., 2023, Nat. Genet. | 10 |
| *Sorghum bicolor; S. propinquum* | Tao *et al*., 2021, Nat. Plants | 13 |
| *Citrus sinensis* | Gao *et al*., 2023, iScience | 1 |
| *Solanum andreanum;S. tuberosum; S. boliviense; S. brevicaule; S. buesii;S. bulbocastanum; S. burkartii; S. cajamarquense; S. candolleanum; S. chacoense; S. chomatophilum; S. commersonii; S. etuberosum; S. jamesii; S. lignicaule; S. morelliforme;S. multiinterruptum; S.m neorossii; S. palustre; S. paucissectum; S. pinnatisectum; S. piurae; S. sogarandinum; S. vernei* | Tang *et al*., 2022, Nature | 46 |
| *Solanum tuberosum* | Karetnikov *et al*., 2023, Int. J. Mol. Sci. | 9 |
| *Solanum lycopersicum; S. pimpinellifolium* | Zhou *et al*., 2022, Nature | 32 |
| *Solanum lycopersicoides; S. habrochaites; S. chilense;S. peruvianum; S. corneliomulleri; S. neorickii; S. chmielewskii;S. pimpinellifolium; S. galapagense; S. lycopersicum* | Li *et al*., 2023, Nat. Genet. | 11 |
| *Cucumis melo* | Lyu *et al*., 2023, Plant Physiol. | 1 |
| *Capsicum annuum;C. baccatum;C. pubescens* | Liu *et al*., 2023 Nat. Commun. | 3 |
| *Rhododendron × pulchrum* | Shen *et al*., J. Syst. Evol. | 2 |
| *Vitis rotundifolia* | Huff *et al*., BMC Genomics | 1 |
| *Citrullus mucosospermus;C. amarus;C. colocynthis* | Wu *et al*., 2023, Plant Biotechnol. | 3 |
| *Clausena lansium;Luvunga scandens;Aegle marmelos;Citropsis gilletiana;Atalantia buxifolia;Citrus mangensis;C. linwuensis;C. ichangensis;C. australasica;C. hongheensis;C.maxima* | Huang *et al*., 2023, Nat. Genet. | 12 |
| *Vitis acerifolia;V. aestivalis;V. arizonica;V.berlandieri;V. girdiana;V. monticola;V. mustangensis;V. riparia;V. rupestris* | Cochetel *et al*., 2023, Genome Biol. | 18 |
| *Arabidopsis thaliana* | Kang *et al*., 2023, Nat. Commun. | 32 |
| *Malus orientalis* | 10.1038/s41467-023-43270-7 | 10 |
| *Camellia sinensis var. assamica;C. sinensis var. pubilimba;C. sinensis var. sinensis* | Wang *et al*., 2023, Nat. Commun. | 18 |
| *Solanum tuberosum;S. andigena;S.bukasovii;S. okadae;S. phureja x S. tuberosum* | Bozan *et al*., 2023, Proc Natl Acad Sci U S A. | 10 |
| *Panicum miliaceum L.* | 10.1038/S41588-023-01571-Z | 32 |