**Table 2. Summary of T2T genomes**

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| **Species** | **T2T assembly** | **T2T chromosomes/****basic number of chromosomes** |
| *Arabidopsis thaliana* | Hou et al., 2022, Mol. Plant | 4/5 |
| *Oryza sativa* | Song *et al*., 2021, Mol. Plant | 7 and10/12 |
| *Oryza sativa* | Zhang *et al*., 2022, Plant Biotechnol. | 7-10/12 |
| *Solanum tuberosum* | Yang *et al*., 2023, Mol. Plant | 12/12 |
| *Actinidia chinensis* | Han *et al*., 2023, Mol. Plant | 28/29 |
| *Actinidia latifolia* | Han *et al*., 2023, Mol. Plant | 28/29 |
| *Actinidia chinensis* | Yue *et al*., 2022, Hort. Res. | 29/30; 28/29 |
| *Brassica rapa* | Zhang *et al*., 2023, Plant Biotechnol. | 8/10 |
| *Cenchrus fungigraminus* | Zheng *et al*., 2023, Plant Commun. | 11/14 |
| *Chlamydomonas reinhardtii* | Payne *et al*., 2023, Plant Commun. | 15/17 |
| *Citrullus lanatus* | Deng *et al*., 2022, Mol. Plant | 11/11 |
| *Daucus carota* | Wang *et al*., 2023, Hort. Res. | 6/9 |
| *Erianthus rufpilus* | Wang *et al*., 2023, Nat. Plants | 10/10 |
| *Fragaria vesca* | Zhou *et al*., 2023, Hort. Res. | 7/7 |
| *Jasminum sambac* | Xu *et al*., 2023, J. Exp. Bot. | 9/13 |
| *Momordica charantia* | Fu *et al*., 2022, Hort. Res. | 8/11 |
| *Morus notabilis* | Ma *et al*., 2023, Hort. Res. | 4/6 |
| *Musa acuminata* | Belser *et al*., 2021, Commun.Biol. | 11/11 |
| *Rhodomyrtus tomentosa* | Li *et al.*, 2023, Hort. Res. | 11/11 |
| *Thalia dealbata* | Tang *et al*., 2023, Front. in Plant Sci. | 6/6 |
| *Vitis vinifera* | Shi *et al*., 2023, Hort. Res. | 17/19 |
| *Zea mays* | Chen *et al*., 2023, Nat. Genet. | 10/10 |
| *Glycine max* | Huang *et al*., 2023, Plant Commun. | 20/20 |
| *Dianthus caryophyllus* | Lan *et al*., 2023, Hort. Res. | 15/15 |
| *Cucumis melo L. var. inodorus* | Wei *et al*., 2023, Hort. Res. | 12/12 |
| *Pyrus pyrifolia* | Sun *et al*., 2023, Hort. Res. | 17/17 |
| *Glycine max* | Zhang *et al*., 2023, Crop J. | 20/20 |
| *Ficus hispida* | Liao *et al*., 2023, Hort. Res. | 12/14 |
| *Scutellaria baicalensis* | Pei *et al*., 2023, Hort. Res. | 8/9 |
| *Vitis vinifera* | Wang *et al*., 2023, Hort. Res. | 18 and 19/19 |
| *Penthorum chinense* | Wang *et al*., 2023, Hort. Res. | 6/9 |
| *Setaria italica* | He *et al*., 2023, Mol. Plant | 9/9 |
| *Triticum monococcum* | Wang *et al*., 2023, Plant Commun. | NA/7 |
| *Fragaria × ananassa* | Wang *et al*., 2023, Plant Commun. | 25/28 |
| *Manihot esculenta* | Xu *et al*., 2023, Hort. Res. | 10 and 11/18 |
| *Glycine max* | Wang *et al*., 2023, Mol. Plant | 20/20 |
| *Vigna unguiculata ssp. sesquipedialis* | Yang *et al*., 2023, Plant Biotechnol. J. | 4/11 |
| *Glycine max* | Zhang *et al*., 2023, Mol. Plant | 19/20 |
| *Ziziphus jujuba* | Yang *et al*., 2023, Plant Commun. | 12/12 |
| *Vaccinium duclouxii* | Zeng *et al*., 2023, Hort. Res. | 11/12 |
| *Sesbania cannabina* | Luo *et al*., 2023, Sci. China Life Sci. | 12/12 |
| *Cavendish banana* | Huang *et al*., 2023, Hort. Res. | 6 and 9/11 |
| *Chaenomeles speciosa* | He *et al*., 2023, Hort. Res. | 10/17 |
| *Musa acuminata* | Liu *et al*., 2023, Sci. Data | 16/22 |
| *Rhododendron vialii* | Chang *et al*., 2023, Sci. Data | 23/26 |
| *Armoracia rusticana* | Shen *et al*., 2023, Nat. Commun. | 15/16 |
| *Cucumis melo* | Li *et al*., 2023, Hort. Res. | 12/12 |
| *Oryza sativa* | Shang *et al*., 2023, Mol. Plant | 12/12 |