Table S1. Genome size estimations in *Miscanthus* in comparison to some other grasses and angiosperms. Table data adapted from original publications to fit standardized format and facilitate comparisons.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Taxon** |  | **pg/1C** | **Genome size Gbp/1C** | **Mono-ploid** | **Authors** |
| *M. lutarioriparius*  | 2x4x | 2.1854.28  | 2.144.19  | 2.142.10 | Li *et al*. (2013) |
|  |  |  |  |  |  |
| *M. sacchariflorus*  | 2x | 2.25 | 2.15 | 2.15 | Rayburn *et al*. (2009) |
| *M. sacchariflorus*  | 2x | 2.24 | 2.19 | 2.19 | Swaminathan *et al.* (2010) |
| *M. sacchariflorus*  | 2x4x | 4.374.27 | 2.144.15 | 2.142.08 | Li *et al.* (2013) |
| *M. sacchariflorus*  | 2x | 2.57  | 2.52 | 2.52 | Chramiec-Głąbik *et al.* (2012) |
| *M. sacchariflorus*  | 4x | 4.204.45 | 4.11 4.35 | 2.06 2.18 | Nishiwaki *et al.* (2011) |
| *M. sacchariflorus*  | 4x | 4.485.74 | 4.38 5.62 | 2.19 2.81 | Swaminathan *et al.* (2010) |
|  |  |  |  |  |  |
| *M. sinensis*  | 2x | 2.702.75 | 2.602.65 | 2.60 2.65 | Rayburn *et al.* (2009) |
| *M. sinensis*  | 2x | 2.65 | 2.59 | 2.59 | Nishiwaki *et al.* (2011) |
| *M. sinensis*  | 2x | 2.69 | 2.62 | 2.62 | Li *et al.* (2013) |
| *M. sinensis*  | 2x | 2.83 | 2.77 | 2.77 | Swaminathan *et al*. (2010) |
| *M. sinensis*  | 2x | 2.592.75 | 2.542.69 | 2.542.69 | Chramiec-Głąbik *et al.* (2012) |
| *M. sinensis*  | 3x | 3.79 | 3.71 | 2.47 | Swaminathan *et al*. (2010) |
|  |  |  |  |  |  |
| *M.* ×*giganteus*  | 3x | 3.50 | 3.38 | 2.25 | Rayburn *et al.* (2009) |
| *M.* ×*giganteus*  | 3x | 3.353.50 | 3.28 3.42 | 2.18 2.28 | Nishiwaki *et al.* (2011) |
| *M.* ×*giganteus*  | 3x | 3.803.96  | 3.723.87 | 2.562.58 | Swaminathan *et al.* (2010) |
| *M.* ×*giganteus*  | 3x | 3.74 | 3.66 | 2.44 | Chramiec-Głąbik *et al.* (2012) |
|  |  |  |  |  |  |
| *Arabidopsis thaliana* |  | 1.60a | 157b125c |  | aBennett & Smith (1991) Bennett & Leitch (2012)bBennett *et al.* (2003)cArabidopsis Genome Initiative (2000) |
| *Brachypodium distachyon* |  | 0.36a | 0.27 b |  | aBennett & Leitch (2005)bIBI 2010 |
| *Oryza sativa* ssp. *japonica**Oryza sativa* ssp. *indica* |  | 0.50a | 0.42c0.47b |  | aBennett & Smith (1991) Bennett & Leitch (2012)bYu *et al.* (2002)cGoff *et al.* (2002) |
| *Paris japonica* |  | 152.23 a | 150 a |  | aPellicer *et al.* (2010) |
| *Sorghum bicolor* |  | 0.75a, 1.68 a | 0.73b |  | aBennett & Smith (1991) Bennett & Leitch (2012)bPaterson *et al.* (2009) |
| *Triticum aestivum* |  | - | 17a |  | aBrenchley *et al.* (2012) |
| *Zea mays* |  | 2.73a | 2.30b |  | aBennett & Smith (1991) Bennett & Leitch (2012)Schnable *et al.* (2009) |

Genome size calculated from: 1 pg = 978 Mbp.