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* | 2x  4x | 2.185  4.28 | 2.14  4.19 | 2.14  2.10 | 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* | 2x  4x | 4.37  4.27 | 2.14  4.15 | 2.14  2.08 | Li *et al.* (2013) |
| *M. sacchariflorus* | 2x | 2.57 | 2.52 | 2.52 | Chramiec-Głąbik *et al.* (2012) |
| *M. sacchariflorus* | 4x | 4.20  4.45 | 4.11 4.35 | 2.06  2.18 | Nishiwaki *et al.* (2011) |
| *M. sacchariflorus* | 4x | 4.48  5.74 | 4.38 5.62 | 2.19  2.81 | Swaminathan *et al.* (2010) |
|  |  |  |  |  |  |
| *M. sinensis* | 2x | 2.70  2.75 | 2.60  2.65 | 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 | 2.59  2.75 | 2.54  2.69 | 2.54  2.69 | 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 | 3.35  3.50 | 3.28 3.42 | 2.18  2.28 | Nishiwaki *et al.* (2011) |
| *M.* ×*giganteus* | 3x | 3.80  3.96 | 3.72  3.87 | 2.56  2.58 | Swaminathan *et al.* (2010) |
| *M.* ×*giganteus* | 3x | 3.74 | 3.66 | 2.44 | Chramiec-Głąbik *et al.* (2012) |
|  |  |  |  |  |  |
| *Arabidopsis thaliana* |  | 1.60a | 157b  125c |  | 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 | 0.42c  0.47b |  | 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.