

Species Data Sheet

Datasheet No. A-078.010.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Murdannia japonica* (Thunb.) Faden.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Aneilema cordatum* Buch.-Ham. ex Wall., *A. elatum* (Vahl) Kunth, *A. herbaceum* (Roxb.) Wall., *A. japonicum* (Thunb.) Kunth, *A. latifolium* Wight, *A. lineolatum* (Blume) Kunth, *Commelina elata* Vahl, *C. herbacea* Roxb., *C. japonica* Thunb., *C. lineolata* Blume, *Dirtea japonica* (Thunb.) Raf., *Murdannia elata* (Vahl) G.Brückn., *M. lineolata* (Blume) J.K.Morton, *Phaeneilema herbaceum* (Roxb.) G.Brückn., *Tinantia lineolata* (Blume) Hassk.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Murdannia* Royle
- Species: *M. japonica* (Thunb.) Faden

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. japonica* (Thunb.) Faden

4. Distribution:

Global: Assam, Bangladesh, Borneo, China, East Himalaya, India, Japan, Myanmar, Malaysia, Nepal, Thailand, Jawa, West Himalaya, Vietnam

India: Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Goa, Jharkhand, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Nagaland, Orissa, Sikkim, Tamil Nadu, West Bengal

5. Indigenous/Exotic/Endemic; Cultivated/Wild: Wild

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb. Moist shady slopes, in bamboo plantation, along the water courses

8. Life Form: Tuberous geophyte

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value

Methodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{15,18}42^{15,16}64^{1,15}$

14. Gametic chromosome number(s): $n=32^4$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level:

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:

Karyotype:

Chromosome size:

NOR chromosome(s):

Degree of asymmetry:

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24.Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis:

Male meiosis:

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):