

Species Data Sheet

Datasheet No. A-078.010.009
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Murdannia gigantea* (Vahl) G.Brückn.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Aneilemaensifolium* Wight, *A. giganteum* (Vahl) R.Br., *A. giganteum* var. *gracilis* Benth., *A. nudiflorum* F.Muell., *Commelinagigantea* Vahl, *C. hookeriana* Spreng., *Phaenilemagiganteum* (Vahl) G.Brückn., *Prionostachysensifolia* Hassk. ex C.B. Clarke

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. gigantea* (Vahl) Brueck.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. gigantea* (Vahl) Brueck.

4. Distribution:

Global: Australia, Borneo, India, Andaman Island, Jawa, New South Wales, Philippines, New Guinea, New South Wales, Northern Territory, Malesia, Malaya, Madagascar, Sri Lanka, Vietnam, Queensland

India: Karnataka, Kerala, Maharashtra, Meghalaya, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI

7. **Habit and Habitat:** Herb. Medium to elevated rocky outcrops

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value

Methodology:

12.Basic chromosome number(s): $x=11^3$

13. Zygotic chromosome number(s): $2n=20^{7,10,11,12,13,14,36,37,40}22^{7,14,15,16}44^{14,15}$

14. Gametic chromosome number(s): $n=11^{3,7,15,25,31}22^{1,3,15}$

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):Intraspecific polyploidy^{2,3,15}

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):Aneuploidy^{3,15}

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.):