

Species Data Sheet

Datasheet No. A-078.010.022
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Murdannia vaginata* (L.) Brueck.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Aneilema filiforme* Buch.-Ham. ex Wall., *A. pauciflorum* Dalzell, *A. vaginatum* (L.) R. Br., *A. vaginatum* (L.) Wall., *Commelina vaginata* L., *C. filiformis* Steud., *Dictyospermum vaginatum* (L.) D. Y. Hong, *Dilasiavaginata* (L.) Raf., *Murdannia vaginata* var. *vaginata*, *Tradescantia gangetica* L. ex C.B. Clarke, *Phaeneilemavaginatum* (L.) G. Brückn.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clades: Angiosperms
- Clades: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. &

J. Presl

- Family: Commelinaceae Mirb.
- Genus: *Murdannia* Royle
- Species: *M. vaginata* (L.) Brueck.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Guangdong, Guangxi, Hainan, India, Philippines, Sri Lanka, Thailand, Vietnam

India: Assam, Andhra Pradesh, Karnataka, Kerala, South Andaman Island.

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

6. Threat Status:

IUCN: Not been assessed yet

BSI

7. **Habit and Habitat:** Herb. Common in grasslands, moist places, edges of ditches.

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology:

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{17,18}$

14. Gametic chromosome number(s): $n=20^{2,4}$

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): Euploidy²

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; Translocations etc.):