

Species Data Sheet

Datasheet No. A-078.010.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Murdannia dimorpha* G.Brückn.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Aneilemadimorphum* Dalzell, *A.paniculatum* Wight, *Phaeneilemadimorphum* (Dalzell) G.Brückn.

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. dimorpha* G.Brückn.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. dimorpha* G.Brückn.

4. Distribution:

Global: India

India: Maharashtra, Karnataka, Kerala, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI

7. Habit and Habitat: Erect herb. Common in moist deciduous forest, roadside ditches, marshy places.

8. Life Form:

9. Economic Importance: Root paste with goat milk is prescribed orally to cure asthma.

10. Probable Progenitor of:

11. DNA

C-value

Methodology:

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=20^{1,2}$

14. Gametic chromosome number(s): $n=10^{1,3,4}$

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

Image file

16. Ploidy level:

Image file

17. Agameteoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Euploidy²

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

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.):