

Species Data Sheet

Datasheet No. A-078.010.025
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Murdannia zeylanica* (C.B. Clarke) Brueck.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Aneilema dimorphum* Thwaites, *A. zeylanicum* C.B. Clarke, *A. zeylanicum* var. *longiscapum* C.B. Clarke, *Murdannia zeylanica* var. *longiscapa* (C.B. Clarke) Raizada, *Phaeneilemazeylanicum* (C.B. Clarke) G.Brückn.

3. Systematic Position: APG IV; Bentham and Hooker:

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. zeylanica* (C.B. Clarke) G.Brückn.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. zeylanica* (C.B. Clarke)
G.Brückn.

4. Distribution:

Global: India, Sri Lanka

India: Kerala, Tamil Nadu

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

6. Threat Status:

IUCN: Not been assessed yet

BSI

7. **Habit and Habitat:** Herb. Tropical dry forest, rocky slopes, along the perennial water streams, moist and shady places of evergreen forest.

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology:

12. Basic chromosome number(s): $x=10^{30}$

13. Zygotic chromosome number(s): $2n=40^{30}$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Tetraploid³⁰

Image file

17. Agamete ploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype: Metacentric and Submetacentric³⁰

Chromosome size: Small³⁰

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.):