

# Species Data Sheet

Datasheet No. A-078.010.018  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Murdannia semiteres* (Dalzell) Santapau

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:** *Aneilemapaniculatum* Wall. ex C.B.Clarke, *A.semiteres* Dalzell, *Commelina bulbosa* B. Heyne ex Steud., *C.nimmoniana* J. Graham ex C. B. Clarke, *Dichospermumpaniculatum* Hassk. ex C.B.Clarke, *D. semiteres* (Dalzell) Hassk., *Murdannia nimmoniana*, (J.Graham ex C. B. Clarke) Bole & M. R. Almeida *M. paniculata*, (Wall. ex C. B. Clarke) G.Brückn., *M. juncooides* (Wight) Rolla Rao & Kammath, *Phaeneilemapaniculatum* (Wall. ex C.B.Clarke) 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. semiteres* (Dalzell) Santapau

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Ordo: Commelinaceae Mirb.  
Genus: *Murdannia* Royle  
Species: *M. semiteres* (Dalzell) Santapau

## 4. Distribution:

**Global:** Africa, Kenya, Tanzania, Uganda, Zambia, Zaire, Iran, India, and Vietnam

**India:** Gujarat, Maharashtra, Goa, Karnataka, Tamil Nadu, Kerala

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

## 6. Threat Status:

IUCN: Least Concern

BSI

**7. Habit and Habitat:** Herb. Found on murum rock, margins of shallow pool

**8. Life Form:** Therophyte

## 9. Economic Importance:

## 10. Probable Progenitor of:

**11.DNA**

**C-value**

**Methodology:**

**12.Basic chromosome number(s):** $x=6^3$

**13. Zygotic chromosome number(s):** $2n=12^{15,17}14^{27}20^{27}24^{1,15}40^{27}$

**14. Gametic chromosome number(s):** $n=6^{2,3,4,15}7^{27}10^{27}12^{1,2,3,15}20^{27}$

**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<sup>2,3,15,27</sup>

**19.Genomic formula:**

**20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):**Aneuploidy<sup>3,15,27</sup>

**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.):**