Species Data Sheet

Datasheet No. A-078.010.007
(family.genus.species)

DBT- Network Programme

1.Taxon:
Species**:***Murdanniaesculenta*(Wall. ex C.B. Clarke) R.S. Rao &Kammathy
Subspecies**:**
Variety**:**
Cultivar**:**
Hybrid**:**
Image file

2. Synonyms:*Aneilemaesculentum* Wall. ex C.B.Clarke,*A.pulneyense* Fyson,*A.scapiflorum* var. *minus* Thwaites,*Commelinaesculenta* B. Heyne ex Hook.f., *Phaeneilemapulneyense* (Fyson) Raizada.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: CommelinalesMirb. exBercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Murdannia* Royle
- Species: *M. esculenta*(Wall. ex C.B. Clarke) R.S. Rao &Kammathy

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Family: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. esculenta*(Wall. ex C.B. Clarke) R.S. Rao &Kammathy

4.Distribution:

Global: India, Sri Lanka

India: Kerala and Tamil Nadu

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

6.ThreatStatus:

IUCN: Least Concern

BSI

7.Habit and Habitat: Herb.Found in grassland, mountain slopes and on rock crevices, evergreen forest margins

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=20[1]

14. Gametic chromosome number(s):n=10[1,3]

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): Euploidy[2]

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.Genomicin 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;Translocationsetc.):