

Species Data Sheet

Datasheet No. A-078.010.006 DBT-Network Program
(family.genus.species)

1. Taxon:

Species : *Murdanniaedulis* (Stokes) Faden
Subspecies :
Variety :
Cultivar :
Hybrid :
Image File

2. Synonyms: *Aneilemaformosanum* NE Br., *A.louireiroi* Hance, *A. louireiroi* var. *horsfieldii* CBClarke, *A. multiscaposum* Lauterb., *A.platyphyllum* Merr., *A. scapiflorum* (Roxb.) Kostel., *A. scapiflorum* var. *latifolium* NEBr., *A. serotinum* D.Don ex CBClarke, *A. tuberosum* Buch.-Ham. ex Wall., *Commelina edulis* Stokes, *C.scapiflora* Roxb., *C.spicata* Steud., *C.tuberosa* Lour., *Murdannia formosana* (NEBr.) KSHsu, *M. louireiroi* (Hance) RSRao&Kammathy, *M. multiscaposa* (Lauterb.) G Brückn., *M.scapiflora* (Roxb.) Royle, *Phaenilemamultiscaposum* (Lauterb.) G. Brückn., *P. scapiflorum* (Roxb.) G.Brückn.

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. edulis* (Stokes) Faden.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. edulis* (Stokes) Faden.

4. Distribution:

Global: Assam, Bangladesh, China Southeast, Cambodia, Hainan, East Himalaya, India, Laos, Lesser Sunda Island, Myanmar, New GuineaJawa, Nepal, Philippines, Thailand, West Himalaya, Vietnam

India: Goa, Karnataka, Kerala, Maharashtra, Sikkim, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI

7. Habit and Habitat: Herb. Frequently distributed in forest margins, undergrowth of forest, along the running water bodies

8. Life Form: Tuberous geophytes

9. Economic Importance:

10. Probable progenitor of:

11.DNA

C-value Methodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=18^{1,9}$

14. Gametic chromosome number(s): $n=9^{9} \quad 21^{39}$

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):

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 Levels

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stability; Translocation etc.):