# Species Data Sheet

**Datasheet No. A-078.010.017** **DBT- Network Programme**
**(family.genus.species)**

**1.Taxon:**
Species:*Murdannianudiflora*(L.) Brenan
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

**2. Synonyms:***Aneilema bracteolatum* var. *majus* Seub., *A. bracteolatum* var. *minus* Seub., *A. compressum* Dalzell, *A.debile* Wall., *Aneilema diandrum* Buch.-Ham. ex Wall., *A. diversifolium* Hassk., *A. foliosum* Hassk., *A.junghunianum* Miq., *A.lancifolium* Griff., *A.malabaricum* (L.) Merr.,*A.minutum* (Blume) Kunth, *A.nudicaule* (Burm.f.) G.Don, *A.nudiflorum*(L.) Sweet,*A.nudiflorum*var. *compressum* (Dalzell) C.B.Clarke,*A.radicans* D.Don, *A.trichocoleum* Schauer,*Callisia*parvula Brandegee, *Commelinachinensis* Osbeck, *C.diandra* Steud., *C.exilis* Steud., *C.minuta* Blume, *C.nudicaulis* Burm.f., *C.nudiflora* L., *C.nudiflora* f. *angustifolia* C.B.Clarke, *C.radicans* (D.Don) Spreng., *C.sellowii* Schltdl., *Cyanotisgueinzii* Hassk., *Ditelesianudiflora* (L.) Raf.,*Murdannia malabarica* (L.) G.Brückn.,*M.malabarica* var. *compressa*(Dalzell) Santapau & S.K.Jain,*Phaeneilemadiversifolium* (Hassk.) G.Brückn., *P.malabaricum* (L.) V.Naray., *P.nudiflorum* (L.) G.Brückn., *Stickmanniaguyanensis* Raf.,*S.longicollis* Raf., *Tradescantiacristata* Fern.-Vill., *T.malabarica* L.

**3.Systematic Position:**

**APG IV (2016)**

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. exBercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Murdannia* Royle
- Species: *M. nudiflora*(L.) Brenan

**Bentham and Hooker (1862)**
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Murdannia* Royle
Species: *M. nudiflora* (L.) Brenan

**4.Distribution:**

**Global:** Tropical Asia to Malaysia, West Africa, Southeastern United States, and West Indies to Brazil

**India:**Throughout India

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

**6.Threat Status:**

**IUCN**

**BSI**

**7.Habit and Habitat:**Herb. Common along roadside, ditches, rocky outcrops with pools marsy and swampy areas, open flats, stream margins, waste lands, in cultivation fields, full sun to partial shade

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value** **Methodology:**

**12.Basic chromosome number(s):**x=4[12]

**13. Zygotic chromosome number(s):**2n=20[5,10,11,12,14,19,20,21,22,23,24,36,37]28[15,18,41]35[25]39[25]42[15,24]
56[15,18]

**14. Gametic chromosome number(s):**n=10[3,7,12,20,21,23,24]15[22]30[26]

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

Image file

**16.Ploidy level:**Diploid[12,21]Triploid[14,22]

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:** $10II^{3,12,21}15II^{14,22}$

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.):**