

# Species Data Sheet

Datasheet No. A-078.012.006  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Cyanotis cristata*(L.) D.Don.

Subspecies

Variety

Cultivar

Hybrid

Image file

**2.Synonyms:***Commelinacristata* L.,*Cyanotiscavaleriei* H.Lév. & Vaniot,*C.huegelii* Hassk.,*C. imbricata* (Roxb.) Kunth, *C. racemosa* C.B.Clarke,*Ephemerumcristatum* (L.) Moench, *Siphostigmacristata* (L.) Raf,*Tonningiacristata*(L.) Kuntze, *Tradescantiacristata* (L.) L., *T.imbricata*Roxb.,*T.umbellate* B.Heyne exC.B.Clarke, *Zygomenescristata*(L.) W.Wight.

## 3.Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. &J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Cyanotis* D. Don.
- Species: *C. cristata*(L.)D.Don.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Ordo: Commelinaceae Mirb.  
Genus: *Cyanotis* D. Don  
Species: *C.cristata*(L.) D.Don.

## 4.Distribution:

**Global:**North East Tropical Africa, Indian Ocean, Indian Subcontinent to South China and Malaysia

**India:**Throughout tropical India

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

## 6.Threat Status:

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Herb, Found in rocky crivices, slopes of grasslands.

**8.Life Form:**Chamaephytes

**9.Economic Importance:**

**10. Probable Progenitor of:**

## 11.DNA

### C-valueMethodology

12. Basic chromosome number(s):  $x=4^{55}12^1$

13. Zygotic chromosome number(s):  $2n=24^{1,2,4,5,6,15,16,17,18,19,20,21,22,31}26^{28}$

14. Gametic chromosome number(s):  $n=12^{2,5,6,15,16,19,22,23,30,31}$

15. Specialized chromosomes (B chromosomes/Sex chromosomes/polytene chromosomes/Neocentric chromosomes): B-chromosome  $(24+0-1B)^{31}$

Image file

16. Ploidy level: Diploid  $^{1,5,15,19}$

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17. Agameteoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

**Karyotype:** Mostly subterminal and terminal<sup>1</sup>

**Chromosome size:** Medium Size

**NOR chromosome(s):** 4NOR<sup>5</sup>

**Degree of asymmetry:** Asymmetrical<sup>1</sup>

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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:** 12II<sup>5,6,15,19</sup>

Image file

**27. Chromosome distribution at anaphase I:** 12:12<sup>5,6,19</sup>

**28. Genetic diversity:**

**Chromosomal level:**

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**DNA level**

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