

Species Data Sheet

Datasheet No. A-078.012.008
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyanotisfasciculata*(B.Heyne ex Roth) Schult.f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:*Cyanotisdecumbens* Wight, *C.dichrotricha* Stocks, *C.eriantha* Hassk.,*C.fasciculataglabrescens* C.B.Clarke,*C.lawiana* Wight, *C.fasciculata* var. *faciculata*, *C.rosea* Wight, *C.rupestris* M.R.Almeida, *Tillandsia decumbens* Forssk., *Tonningiafasciculata* (B.Heyne ex Roth) Kuntze, *Tradescantiafasciculata* B.Heyne ex Roth, *T. rupestris* J.S.Law ex J.Graham

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. fasciculata* (B.Heyne ex Roth) Schult.f.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Cyanotis* D. Don
Species: *C.fasciculata*(B.Heyne ex Roth) Schult.f.

4. Distribution:

Global: East Himalaya, India, Sri Lanka

India: Peninsular & North East India

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

6. Threat Status:

IUCN: Least Concern

BSI

7. Habit and Habitat: Herb. Common in moist grasslands, fields and rocky areas.

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12. Basic chromosome number(s): $x=4^{15}12^1$

13. Zygotic chromosome number(s): $2n=22^{21}24^{1,4,6,13,15,16,28}$

14. Gametic chromosome number(s): $n=12^{1,3,6,12,15,23}$

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

Image file

16. Ploidy level: Diploid¹⁵

Image file

17. Agamete ploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype: Mostly submedian and median¹

Chromosome size: Medium size

NOR chromosome(s):

Degree of asymmetry: Asymmetrical¹

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: 12×12^6

Image file

27. Chromosome distribution at anaphase I: $12:12^6$

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

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