

Species Data Sheet

Datasheet No. A-078.012.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyanotispapilionacea* (Burm. f.) Schult. & Schult. f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Commelinapapilionacea* Burm.f., *Cyanotishirtella* Miq. ex Hassk., *C. hispida* Dalzell, *C. papilionacea* var. *papilionacea*, *Tommingiapapilionacea* (Burm.f.) Kuntze, *Tradescantiacristata* B. Heyne ex C.B. Clarke, *T. papilionacea* (Burm.f.) L.

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. papilionacea* (Burm. f.) Schult. & Schult. f.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledones

Series: Coronarieae

Ordo: Commelinaceae Mirb.

Genus: *Cyanotis* D. Don

Species: *C. papilionacea* (Burm. f.) Schult. & Schult. f.

4. Distribution:

Global: India

India: Western Ghats

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. **Habit and Habitat:** Herb. Found in wet places near the water courses, and also in grasslands. During rainy seasons it is found near wet rocks.

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=8^1$

13. Zygotic chromosome number(s): $2n=16^{1,11}$

14. Gametic chromosome number(s): $n=8^{4,6,12^8}$

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

Image file

16. Ploidy level: Diploid¹

Image file

17. A gametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype: Mostly terminal and remaining median^{1,11}

Chromosome size: Medium size

NOR chromosome(s)

Degree of asymmetry: Asymmetrical

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:8II^{6,11}

Image file

27.Chromosome distribution at anaphase I:8:8⁶

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

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