

Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.002.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Acanthophippiumbicolor* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Collabieae
- Genus: *Acanthophippium* Blume
- Species: *Acanthophippiumbicolor* Lindl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Beletieae
Genus: *Acanthophippium* Blume
Species: *Acanthophippiumbicolor* Lindl.

4. Distribution:

Global: India, Sri Lanka

India: Karnataka, Kerala, Odisha, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial herbs; Evergreen forests

8. Life Form: Cryptophytes

9. Economic Importance: Medicine for Urinary Tract Infection and leaves can be used as herbal and scientific medicine throughout the year

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=24$ ¹⁰

13. Zygotic chromosome number(s): $2n=48$ ¹⁰

Puttalingaiah & V. Rangaswamy. 1979. Cytological studies in *Acanthephippium bicolor* Lindl. Curr. Sci. 48: 598–599.

14. Gametic chromosome number(s): $n=24$ ¹⁰

Puttalingaiah & V. Rangaswamy. 1979. Cytological studies in *Acanthephippium bicolor* Lindl. Curr. Sci. 48: 598–599.

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

Image file

16.Ploidy level: Diploid¹⁰

Puttalingaiah & V. Rangaswamy. 1979. Cytological studies in *Acanthephippium bicolor* Lindl. Curr. Sci. 48: 598–599.

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: ¹⁰

Puttalingaiah & V. Rangaswamy. 1979. Cytological studies in *Acanthephippium bicolor* Lindl. Curr. Sci. 48: 598–599.

Karyotype Bimodal, median, submedian, subterminal¹⁰

Chromosome size Small¹⁰

NOR chromosome(s) one pair¹⁰

Degree of asymmetry moderately asymmetrical¹⁰

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 24II^{10}

Puttalingaiah & V. Rangaswamy. 1979. Cytological studies in *Acanthephippium bicolor* Lindl. Curr. Sci. 48: 598–599.

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; Translocation etc.):