

Species Datasheet

Datasheet No. A-061.045.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Cymbidiumcyperifolium* Wall. exLindl.

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: Cymbidieae
- Subtribe: Cymbidiinae
- Genus: *Cymbidium* Sw.
- Species: *Cymbidium cyperifolium* Wall. ex Lindl.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermæ

Ordo: Orchideae

Tribus: Vandeae

Subtribus: Cymbidieae

Genus: *Cymbidium* Sw.

Species: *Cymbidium cyperifolium* Wall. ex Lindl.

4.Distribution:

Global: Assam, Bangladesh, Cambodia, China South-Central, China Southeast, East Himalaya, Hainan, Myanmar, Nepal, Philippines, Thailand, Vietnam, West Himalaya

India: All along Himalayan ranges from Garhwal to Manipur 1800-2000m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Epiphyte, found in thick forests in humus rich places at 1800-1900 m

8.Life Form: Phanerophyte

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=18^4, 20^6, 26, 37, 39, 47, 21^{23, 30}$

13. Zygotic chromosome number(s): $2n=40^{4, 6, 26, 37, 39, 47}, 36^4, 42^{23, 30}$

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

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

Image file

16.Ploidy level:Diploid $^{4, 6, 23, 26, 30, 37, 39, 47}$

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: $^{4, 23, 26, 37}$

KaryotypeAll Median 23 , Median, submedian and subterminal $^{4, 37}$

Chromosome sizeSmall $^{4, 23, 37}$

NOR chromosome(s) $2^{4, 26, 37}$

Degree of asymmetrySymmetrical $^{4, 26, 37}$

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization: 45S rDNA^{26, 37}

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

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.):