

Species Datasheet

Datasheet No. A-061.045.019
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cymbidium sinense* (Andrew) Willd.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Epidendrum sinense Andrews, *Cymbidium albojucundissimum* Hayata, *Cymbidium chinense* Heynh., *Cymbidium fragrans* Salisb., *Cymbidium hoosai* Makino, *Cymbidium sinense* f. *pallidiflorum* (S.S.Ying) S.S.Ying, *Cymbidium sinense* var. *pallidiflorum* S.S.Ying, *Cymbidium sinense* f. *taiwanianum* (S.S.Ying) S.S.Ying, *Cymbidium sinense* var. *taiwanianum* S.S.Ying, *Wutongshania guangdongensis* Z.J.Liu & J.N.Zhang.

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 sinense* (Andrew) Willd.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Vandeae
Subtribus: Cymbidieae
Genus: *Cymbidium* Sw.
Species: *Cymbidium sinense* (Andrew) Willd.

4. Distribution:

Global: Assam, China South-Central, China Southeast, East Himalaya, Hainan, Japan, Myanmar, Nansei-shoto, Taiwan, Thailand, Vietnam

India: Eastern Himalayas

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Warm to cold growing terrestrial

8.Life Form: Phanerophyte

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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2C (6.31 pg) ¹²	Flow cytometry ¹²
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12.Basic chromosome number(s): $x=20$ ^{1, 11, 12, 13, 14, 15, 17, 32, 42}

13. Zygotic chromosome number(s): $2n=40$ ^{1, 11, 12, 13, 14, 15, 17, 32, 42, 41}¹⁷

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

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

Image file

16.Ploidy level:Diploid^{1, 11, 12, 13, 14, 15, 17, 32, 42}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):¹⁷

21.Somatic chromosomes:¹

Karyotype Median, submedian, 2 pairs subterminal¹

Chromosome size Small to medium¹

NOR chromosome(s)

Degree of asymmetry Symmetrical¹

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

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.):