

Species Datasheet

Datasheet No. A-061.045.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cymbidium cochleare* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Cyperorchis cochleare* \(Lindl.\) Benth.](#), [*Cymbidium babae* \(Kudô ex Masam.\) Masam.](#), [*Cyperorchis babae* Kudô ex Masam.](#),

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 cochleare* Lindl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Vandaeae
Subtribus: Cymbidieae
Genus: *Cymbidium* Sw.
Species: *Cymbidium cochleare* Lindl.

4. Distribution:

Global: Assam, Bangladesh, China South-Central, East Himalaya, Myanmar, Taiwan, Vietnam

India: Eastern Himalayas distributed in subtropical and temperate climates of Sikkim, Meghalaya 1200-1800

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Epiphyte in open forests

8. Life Form: Phanerophyte

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20$ ^{24, 39, 43, 47, 51}

13. Zygotic chromosome number(s): $2n=40$ ^{39, 43, 47, 51}

14. Gametic chromosome number(s): $n=20$ ²⁴

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

Image file

16.Ploidy level: Diploid^{24, 39, 43, 47, 51}

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:³⁹

KaryotypeMedian, submedian, 2 subterminal pairs³⁹

Chromosome sizeSmall³⁹

NOR chromosome(s)

Degree of asymmetryModerately asymmetrical³⁹

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;Translocationsetc.):