

Species Datasheet

Datasheet No. A-061.045.016
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cymbidium lowianum* (Rchb.f.) Rchb.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Cymbidium hookerianum var. *lowianum* (Rchb.f.) Y.S.Wu & S.C.Chen, *Cyperorchis lowiana* (Rchb.f.) Schltr.,

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 lowianum* (Rchb.f.) Rchb.f.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Vandeae
Subtribus: Cymbidieae
Genus: *Cymbidium* Sw.
Species: *Cymbidium lowianum* (Rchb.f.) Rchb.f.

4. Distribution:

Global: Assam, China South-Central, Myanmar, Thailand, Vietnam

India: Eastern Himalayas, 1500m

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Cool to cold growing Epiphyte

8.Life Form: Phanerophyte

9.Economic Importance:Ornamental, cultivated

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19$ ^{13, 14}, 20 ^{1, 3, 9, 10, 16, 19, 31, 32, 38, 39, 41, 51}, 22 ^{33, 34}

13. Zygotic chromosome number(s): $2n=38$ ^{13, 14}, 40 ^{1, 3, 9, 10, 16, 19, 31, 32, 38, 39, 41, 51}

14. Gametic chromosome number(s): $n=22$ ^{33, 34}

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

Image file

16.Ploidy level:Diploid^{1, 3, 9, 10, 13, 14, 16, 19, 31, 32, 33, 34, 38, 39, 41, 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:^{1, 38}

KaryotypeMedian, submedian, 2 pairs subterminal^{1, 38}

Chromosome sizeSmall to medium^{1, 38}

NOR chromosome(s)^{21, 26}

Degree of asymmetrySymmetrical^{1, 38}

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 (Apoixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):