

Species Datasheet

Datasheet No. A-061.048.050
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Dendrobium polyanthum* Wall. ex Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Callistacretacea (Lindl.) Kuntze

Callistaprimulina (Lindl.) Kuntze

Dendrobium cretaceum Lindl.

Dendrobium nobile var. *pallidiflorum* Hook.

Dendrobium primulinum Lindl.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxidinae
- Subtribe: Dendrobiinae
- Genus: *Dendrobium* Sw.
- Species: *Dendrobium polyanthum* Wall. ex Lindl.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class:Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Dendrobium* Sw.
Species: *Dendrobium polyanthum* Wall. ex Lindl.

4.Distribution:

Global: China South-Central, India, Laos, Myanmar, Nepal, Thailand, Vietnam, West Himalaya

India: Andaman and Nicobar Islands

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows as deciduous epiphyte in Kumaon hill at 1000m

8.Life Form: Phanerophyte

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^9, 26, 27, 33, 34, 39, 47$

13. Zygotic chromosome number(s): $2n=38^9, 26, 27, 33, 34, 47$,

$38+1f^{18}$,

57^{47}

14. Gametic chromosome number(s): $n=19^{34, 39, 47}$

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

Image file

16.Ploidy level:Diploid $9, 26, 27, 33, 34, 39, 47$

Triploid⁴⁷

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomy, polysomy):

21.Somatic chromosomes:⁴⁷

Karyotype Median, submedian, 3 pairs subterminal⁴⁷

Chromosome size Small⁴⁷

NOR chromosome(s)

Degree of asymmetry Symmetrical⁴⁷

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 Diploid cytotype: 19 II^{46, 47}

Triploid cytotype: Multivalents observed^{46, 47}

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.):