

Species Datasheet

Datasheet No. A-061.048.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium amoenum* Wall. ex Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Callistaamoena (Wall. ex Lindl.) Kuntze

Dendrobiumegertoniae Lindl.

Dendrobiummesochlorum 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 amoenum* 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 amoenum* Wall. ex Lindl.

4. Distribution:

Global: India, Himalayas, Nepal, Bhutan, Bangladesh, Myanmar

India: Himachal Pradesh, Uttarakhand, Assam, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, West Bengal

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Common epiphyte along forest borders

8.Life Form: Phanerophyte

9.Economic Importance:Cultivated ornamental, medicinal, pseudobulb paste applied to treat burns, and dislocated bones

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{18}$, $20^{2, 39, 46, 55, 57, 58}$

13. Zygotic chromosome number(s): $2n=38^{18}$, $40^{2, 39, 46, 55, 58}$

14. Gametic chromosome number(s): $n=20^{39, 57}$

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

Image file

16.Ploidy level:Diploid^{2, 39, 46, 55, 58}

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:⁴⁶

KaryotypeMedian, submedian, two subterminal pairs⁴⁶

Chromosome sizeSmall⁴⁶

NOR chromosome(s)

Degree of asymmetry Moderately asymmetrical⁴⁶

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.):