

Species Datasheet

Datasheet No. A-061.048.021
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium crepidatum* Lindl. & Paxton

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Callistacrepidata (Lindl. & Paxton) Kuntze

Callistalawiana (Lindl.) Kuntze

Dendrobium actinomorpha Blatt. & Hallb.

Dendrobium lawianum Lindl.

Dendrochilum roseum Dalzell

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 crepidatum* Lindl. & Paxton

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Dendrobieae

Genus: *Dendrobium* Sw.

Species: *Dendrobium crepidatum* Lindl. & Paxton

4. Distribution:

Global: Hainan China, Assam, Bangladesh, eastern Himalayas, India, Nepal, Sikkim, western Himalayas, Myanmar, Thailand, Laos and Vietnam at elevations of 600 to 2100 m

India: Assam, Manipur, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, West Bengal, Uttarakhand, Maharashtra, Kerala, Karnataka, Odisha, Tamil Nadu, Bihar, Goa

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows as epiphyte at lower elevations and as lithophytes at higher elevations

8.Life Form:Phanerophyte

9.Economic Importance:Cultivated ornamental, medicinal, pseudobulb paste is applied in fracture and dislocated bones.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{15, 18, 26, 46, 50}$

13. Zygotic chromosome number(s): $2n=38^{15, 18, 26, 46, 50}$

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

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

Image file

16.Ploidy level:Diploid^{15, 18, 26, 46, 50}

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, 3pairs subterminal⁴⁶

Chromosome size Small⁴⁶

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.):