

Species Datasheet

Datasheet No. A-061.048.032
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium monticola* P.F.Hunt & Summerh.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Callista alpestris Kuntze

Dendrobium alpestre Royle [Illegitimate]

Dendrobium pusillum D. Don [Illegitimate]

Dendrobium roylei M. Hiroe [Illegitimate]

Dendrobium roylei A.D. Hawkes & A.H. Heller [Illegitimate]

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 monticola* P.F.Hunt & Summerh.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Dendrobium* Sw.
Species: *Dendrobium monticola* P.F.Hunt & Summerh.

4. Distribution:

Global: China Southeast, East Himalaya, India, Laos, Nepal, Thailand, Tibet, Vietnam, West Himalaya

India: Uttarakhand, Arunachal Pradesh, Sikkim,

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows as an epiphyte at 1300-1600m in Kumaon hills

8.Life Form:Phanerophyte

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^1$, 27, 33, 34, 58

13. Zygotic chromosome number(s): $2n=40^1$, 58

14. Gametic chromosome number(s): $n=20^1$, 27, 33, 34, 58

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

Image file

16.Ploidy level:Diploid¹, 27, 33, 34, 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:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

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 $n=20II$ ^{27, 33, 34}

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.):