

Species Datasheet

Datasheet No. A-061.048.020
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobiumchrysotoxum* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Callistachrysotoxa (Lindl.) Kuntze

Callistachrysotoxa (Lindl.) Brieger

Callistasuavissima (Rchb.f.) Kuntze

Dendrobiumchrysotoxum var. *suavissimum* (Rchb.f.) A.H.Kent

Dendrobiumsuavissimum Rchb.f.

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 chrysotoxum* Lindl.

Bentham and Hooker(1862)

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

4. Distribution:

Global: Bangladesh, Cambodia, India, China South-Central, East Himalaya, Laos, Myanmar, Thailand, Vietnam

India: Manipur, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Epiphyte,

8.Life Form:Phanerophyte

9.Economic Importance:Cultivated ornamental, Leaf extract used as tonic and antipyretic

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19$ ^{9, 12, 14, 18, 26, 29, 47, 55, 59, 60}, 20 ^{6, 17}

13. Zygotic chromosome number(s): $2n=38$ ^{9, 12, 14, 18, 26, 29, 55, 59, 60},

40 ^{6, 17}

14. Gametic chromosome number(s): $n=19$ ⁴⁷

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

Image file

16.Ploidy level:Diploid ^{6,9, 12, 14, 17, 18, 26, 29, 47, 55, 59, 60}

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 19II⁴⁷

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.):