

Species Datasheet

Datasheet No. A-061.048.046
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium parishii* Rchb.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Callistaparishii (Rchb.f.) Kuntze

Callistarhodopterygia (Rchb.f.) Kuntze

Dendrobium polyphlebium Rchb.f.

Dendrobium rhodopterygium 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 parishii* Rchb.f.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Hainan China, India, Bangladesh, eastern Himalayas, Myanmar, Thailand, Laos and Vietnam, 250-1700m

India: Manipur, Mizoram, Assam, Arunachal Pradesh

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Hot to cool growing epiphyte

8.Life Form: Phanerophyte

9.Economic Importance:cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (2.40 pg)²⁰ Flow cytometry²⁰

12.Basic chromosome number(s): $x=19$ ^{12, 14, 20, 26, 46, 47, 51}

13. Zygotic chromosome number(s): $2n=38$ ^{12, 14, 20, 26, 46, 47, 51} , 76 ⁴⁷

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

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

Image file

16.Ploidy level:Diploid^{12, 14, 20, 26, 46, 47, 51}

Tetraploid⁴⁷

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):Some root tip cells show polysomaty with $2n=76$ ^{46, 47}

21.Somatic chromosomes:^{46, 47}

Karyotype Median, submedian^{46, 47}

Chromosome sizeSmall^{46, 47}

NOR chromosome(s)

Degree of asymmetrySymmetrical^{46, 47}

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;Translocationetc.):**