

Species Datasheet

Datasheet No. A-061.048.026
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium macraei* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Callistamacraei* \(Lindl.\) Kuntze](#)

[*Ephemeranthamacraei* \(Lindl.\) P.F.Hunt&Summerh.](#)

[*Flickingeriamacraei* \(Lindl.\) Seidenf.](#)

[*Flickingeriamacraei* \(Lindl.\) Bennet](#)

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 macraei* Lindl.

Bentham and Hooker(1862)

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

4. Distribution:

Global: India, Nepal, Sri Lanka, Myanmar, Laos and Vietnam

India: Eastern Himalayas, 700m

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Epiphyte

8.Life Form:Phanerophyte

9.Economic Importance:Medicinal, whole plant paste used against snake bites, general stimulant and demulcent, asthma, bronchitis and fever.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{12, 14, 39, 47, 49, 57}, 20^{37, 38, 45}$

13. Zygotic chromosome number(s): $2n=38^{12, 14, 47, 49, 57}, 40^{37, 38}$

14. Gametic chromosome number(s): $n=19^{39, 47}, 20^{38, 45}$

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

Image file

16.Ploidy level:Diploid^{12, 14, 37, 38, 39, 45, 47, 49, 57}

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:⁴⁷

KaryotypeMedian, submedian⁴⁷

Chromosome size Small⁴⁷

NOR chromosome(s)

Degree of asymmetrySymmetrical⁴⁷

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 meiosis19II⁴⁷, 20II^{38, 45}

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.):