

Species Datasheet

Datasheet No. A-061.048.031
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium moniliforme* (L.) Sw.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Callistacandida* \(Wall. ex Lindl.\) Kuntze](#)

[*Callistajaponica* \(Blume\) Kuntze](#)

[*Callistamoniliforme* \(L.\) Kuntze](#)

[*Callistamoniliformis* \(L.\) Kuntze](#)

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

[*Dendrobiumcandidum* Wall. ex Lindl.](#)

[*Dendrobiumcastum* Bateman ex Rehb.f.](#)

[*Dendrobiumcrispulum* Kimura & Migo](#)

[*Dendrobiumheishanense* Hayata](#)

[*Dendrobiumjaponicum* \(Blume\) Lindl.](#)

[*Dendrobiumkosepangii* C.L. Tso](#)

[*Dendrobiumkwangtungense* C.L. Tso](#)

[*Dendrobiummonile* Kraenzl. \[Illegitimate\]](#)

[*Dendrobiummoniliforme* var. *malipoense* L.J. Chen & Z.J. Liu](#)

[*Dendrobiummoniliforme* var. *moniliforme*](#)

[*Dendrobiummoniliforme* var. *taiwanianum* S.S. Ying](#)

[*Dendrobiumnienkui* C.L. Tso](#)

[*Dendrobiumspathaceum* Lindl.](#)

[*Dendrobiumtaiwanianum* S.S. Ying](#)

[*Dendrobiumtosaense* var. *chingshuishanianum* S.S. Ying](#)

[*Dendrobiumwilsonii* Rolfe](#)

[*Dendrobiumyunnanense* Finet](#)

[*Dendrobiumzonatum* Rolfe](#)

[*Epidendrummonile* Thunb. \[Illegitimate\]](#)

[*Epidendrummoniliferum* Panz.](#)

[*Epidendrummoniliforme* L.](#)

[*Limodorummonile* \(Thunb.\) Thunb.](#)

[*Onychiumjaponicum* Blume](#)

[*Ormostemaalbiflora* Raf.](#)

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: *D. moniliforme* (L.) Sw.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Dendrobium* Sw.
Species: *D. moniliforme* (L.) Sw.

4. Distribution:

Global: Bangladesh, China North-Central, China South-Central, China Southeast, East Himalaya, Japan, Korea, Myanmar, Nepal, Taiwan, Vietnam, West Himalaya

India: Assam, Manipur, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, West Bengal

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Cold to warm growing small sized epiphyte, lithophyte

8. Life Form: Phanerophyte

9. Economic Importance: Cultivated ornamental, Medicinal aqueous extract of leaves used for diabetes

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=19$ ⁹, 12, 14, 16, 19, 24, 25, 30, 53, 60

13. Zygotic chromosome number(s): $2n=38$ ⁹, 12, 14, 16, 19, 24, 25, 30, 53, 60, 57⁹

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

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

Image file

16.Ploidy level:Diploid^{9, 12, 14, 16, 19, 24, 25, 30, 53, 60}

Triploid⁹

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:⁶⁰

KaryotypeMedian, submedian⁶⁰

Chromosome size Small⁶⁰

NOR chromosome(s)

Degree of asymmetrySymmetrical⁶⁰

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.):