

Species Datasheet

Datasheet No. A-061.048.023
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium crumenatum* Sw.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aporum crumenatum* \(Sw.\) Brieger](#)

[*Aporum ephemerum* \(J.J.Sm.\) Rauschert](#)

[*Aporum kwashotense* \(Hayata\) Rauschert](#)

[*Aporum papilioniferum* \(J.J.Sm.\) Rauschert](#)

[*Callistacrumenata* \(Sw.\) Kuntze](#)

[*Ceraia ephemera* \(J.J.Sm.\) M.A.Clem](#)

[*Ceraia papilionifera* \(J.J.Sm.\) M.A.Clem](#)

[*Ceraia parviflora* \(Ames & C.Schweinf.\) M.A.Clem](#)

[*Ceraia saaronica* \(J.Koenig\) M.A.Clem & D.L.Jones](#)

[*Ceraia simplicissima* Lour.](#)

[*Dendrobium caninum* \(Burm.f.\) Merr.](#)

[*Dendrobium ceraia* Lindl.](#)

[*Dendrobium crumenatum* var. *parviflorum* Ames & C.Schweinf.](#)

[*Dendrobium ephemerum* \(J.J.Sm.\) J.J.Sm.](#)

[*Dendrobium kwashotense* Hayata](#)

[*Dendrobium papilioniferum* J.J.Sm.](#)

[*Dendrobium papilioniferum* var. *ephemerum* J.J.Sm.](#)

[*Dendrobium schmidtianum* Kraenzl.](#)

[*Dendrobium simplicissimum* \(Lour.\) Kraenzl.](#)

[*Epidendrum caninum* Burm.f.](#)

[*Epidendrum ceraia* Raeusch. \[Invalid\]](#)

[*Epidendrum saaronicum* J.Koenig](#)

[*Onychium crumenatum* \(Sw.\) Blume](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxidinae

Bentham and Hooker (1862)

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

- Subtribe: Dendrobiinae
- Genus: *Dendrobium* Sw.
- Species: *Dendrobium crumenatum* Sw.

4. Distribution:

Global: Hong Kong, Taiwan, India, Sri Lanka, Andaman Islands, Myanmar, Thailand, Malaysia, Cambodia, Laos, Vietnam, Lesser Sunda Islands, Moluccas, Sulawesi, Sumatra, New Guinea, Christmas Islands and the Philippines in semi-deciduous and deciduous dry lowland forests and savanna-like woodlands at an altitude of sea level to 500 m

India: Andaman Island

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Hot to warm growing epiphyte

8. Life Form: Phanerophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

2C (2.61 pg)²⁰ Flow cytometry²⁰

12. Basic chromosome number(s): $x=19$ ^{12, 14, 16, 19, 20, 47, 51, 53, 60}

13. Zygotic chromosome number(s): $2n=38+0-2B$ ⁴⁷ , 38^{12, 14, 16, 19, 20, 51, 53, 60}

14. Gametic chromosome number(s): $n=19+0-2B$ 's⁴⁷

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):0-2B's⁴⁷

Image file

16.Ploidy level:Diploid^{12, 14, 16, 19, 20, 47, 51, 53, 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:^{47, 60}

KaryotypeMedian, submedian, 3 pairs subterminal^{47, 60}

Chromosome size Small^{47, 60}

NOR chromosome(s)

Degree of asymmetry Moderately asymmetrical^{47, 60}

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.):