

Species Datasheet

Datasheet No. A-061.034.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cleisostoma appendiculatum* (Lindl.) Benth. & Hook.f. ex B.D.Jacks.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aerides appendiculata* Lindl.](#)

[*Aerides appendiculatum* Wall.](#)

[*Cleisostoma hincksianum* \(Rchb.f.\) Garay](#)

[*Sarcanthus appendiculatus* \(Lindl.\) Hook.f.](#)

[*Sarcanthus hincksiana* Rchb. f.](#)

[*Sarcanthus hincksianus* Rchb.f.](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Cleisostoma* Blume
- Species: *Cleisostoma appendiculatum* (Lindl.) Benth. & Hook.f. ex B.D.Jacks.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Vandeae

Subtribus: Sarcantheae

Genus: *Cleisostoma* Blume

Species: *Cleisostoma appendiculatum* (Lindl.) Benth. & Hook.f. ex B.D.Jacks.

4. Distribution:

Global: Bangladesh, India, Nepal and Myanmar

India: Assam, Meghalaya, Nagaland, Arunachal Pradesh, Odisha

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Small to medium sized epiphyte, 500-1500m.

8.Life Form:Phanerophyte

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{1, 3, 11}$

13. Zygotic chromosome number(s): $2n=38^{1, 3, 11}$

(CHATTERJI, A.K. 1968. Chromosome numbers and karyotypes of some orchids.Amer. Orchid Soc. Bull. 37: 202-205.)

Begum, R. 2005. Karyotype analysis of seven orchid species from Bangladesh. Bangladesh J. Bot. 34(1): 31–36.

Kamemoto, Sagarik, Kasemsap 1964

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

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

Image file

16.Ploidy level: Diploid^{1, 3, 11}

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:¹Begum &Alam 2005

KaryotypeMedian, submedian¹

Chromosome size Small to medium¹

NOR chromosome(s)

Degree of asymmetry Symmetrical¹

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.):