

Species Datasheet

Datasheet No. A-061.034.013
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cleisostoma striatum* (Rchb.f.) N.E.Br.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Cleisostomabrevipes* Hook.f.](#)

[*Cleisostomakrempfii* \(Guillaumin\) Garay](#)

[*Cleisostomapiliferum* \(Guillaumin\) Garay](#)

[*Cleisostomastriatum* \(Rchb. f.\) Garay](#)

[*Echioglossumstriatum* Rchb.f.](#)

[*Raciborskanthosstriatus* \(Rchb.f.\) Szlach.](#)

[*Sarcanthusbrevipes* \(Hook.f.\) J.J.Sm](#)

[*Sarcanthuskrempfii* Guillaumin](#)

[*Sarcanthuspilifer* Guillaumin](#)

[*Sarcanthusstriatus* \(Rchb.f.\) J.J.Sm](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandaeae
- Subtribe: Aeridinae
- Genus: *Cleisostoma* Blume
- Species: *Cleisostoma striatum* (Rchb.f.)
N.E.Br.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Vandaeae

Subtribus: Sarcantheae

Genus: *Cleisostoma* Blume

Species: *Cleisostoma striatum* (Rchb.f.) N.E.Br

4. Distribution:

Global:Chinese Himalayas, Assam, eastern Himalayas, Sikkim, southern China, Thailand, Vietnam, Malaysia Borneo, 400 to 1600 m

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Epiphyte in shady places beside streams in hill forests, 500-1600m

8.Life Form:Phanerophyte

9.Economic Importance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=18^{13}, 19^{16, 18, 21}, 20^{17}$

13. Zygotic chromosome number(s): $2n=38^{16, 18, 21}, 40^{17}, 36-38^{16, 18}, 72^{13}$

14. Gametic chromosome number(s): $n=19^{16, 18}$

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

Image file

16.Ploidy level:Diploid^{16, 17, 18, 21}, Tetraploid¹³

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:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

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 meiosisCytotype 1: ($2n=36-38$) very irregular meiosis with univalents, bivalents pseudo-bivalents and trivalents^{16, 18}

Cytotype 2: $n=19$ shows 17II + IV^{16, 18}

Cytotype 3: 20II^{16, 18}

24. Chromosome distribution at Anaphase I :Cytotype 1: very irregular distribution with 19:17, 19:18, 18:20^{16, 18}

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.):**