

1. Genus: *Cleisostoma* Blume

Bentham and Hooker

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Vandeae

Subtribus: Sarcantheae

Genus: *Cleisostoma* Blume

2. Systematic Position:

APG IV

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Cleisostoma* Blume

3. Species:

Global: 99

India: 18

4. Taxonomic riddles:^{4, 6, 23}

5. Distribution:

Global: Bangladesh, Bismarck Archipelago, Borneo, Cambodia, Caroline Is., China South-Central, China Southeast, East Himalaya, Fiji, Hainan, India, Jawa, Laos, Lesser Sunda Is., Malaya, Maluku, Myanmar, Nepal, New Caledonia, New

Guinea, Nicobar Is., Philippines, Solomon Is., Sri Lanka, Suk
Taiwan, Thailand, Tibet, Vanuatu, Vietnam, West Himalaya

India: East Himalaya, Uttarakhand, Odisha, Andaman and Nicobar Islands

6. Habit and Habitat:Epiphytic

7.Economic Importance:

8. DNA content range:

Methodology

2C (6.40 pg)⁸

Flow cytometry⁸

9. Basic chromosome number(s): $x=18^{13}, 19^{1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22}$

$20^{17}, 21^{14, 16, 18}$

10. Zygotic chromosome number(s): $2n=38^{1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 22},$

$36-38^{16, 18}, 42^{14}, 40^{17}, 72^{13}$

11. Gametic chromosome number(s): $n=19^{5, 13, 15, 16, 17, 18, 19}, 21^{14, 16, 18}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/

Neocentric chromosomes):

13. Ploidy levelDiploid^{1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22}

Tetraploid¹³

16. Karyograms: 1, 10

Meiosis: 5, 14, 17, 16, 18, 19

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: 4, 6, 23

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: