

Species Datasheet

Datasheet No. A-061.035.031
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Coelogyne stricta* (D.Don) Schltr.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Coelogyneelata Lindl.

Cymbidiumstrictum D.Don

Pleioneelata (Lindl.) Kuntze

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribus: Arethuseae
- Subtribus: Coelogyneae
- Genus: *Coelogyne* Lindl.
- Species: *Coelogyne stricta* (D.Don) Schltr.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Coelogyneae
Genus: *Coelogyne* Lindl.
Species: *Coelogyne stricta* (D.Don) Schltr.

4. Distribution:

Global: Bangladesh, China South-Central, India, East Himalaya, Laos, Myanmar, Nepal, Tibet, Vietnam, West Himalaya

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

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows on trunks and branches of angiospermic trees in thick forests of Kumaon hills between 1400-1600m

8.Life Form:Phanerophyte

9.Economic Importance:Medicinal, pseudobulb paste antipyretic

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{1, 9, 12, 14, 15, 30}$, $22^{24, 29, 37}$

13. Zygotic chromosome number(s): $2n=40^{9, 12, 14, 15}$, $44^{24, 29}$,

14. Gametic chromosome number(s): $n=20^{1, 30}$

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

Image file

16.Ploidy level: Diploid^{1, 9, 12, 14, 15, 24, 29, 30, 37}

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:^{9, 14, 15}

KaryotypeMedian, submedian^{9, 14, 15}

Chromosome sizeSmall^{9, 14, 15}

NOR chromosome(s)

Degree of asymmetrySymmetrical^{9, 14, 15}

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 2011³⁰

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.):