

Species Datasheet

Datasheet No. A-061.035.018
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Coelogyneoccultata* Hook.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Coelogyneoccultata var. *uniflora* N.P.Balakr.

Pleioneoccultata (Hook.f.) Kuntze

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribus: Arethuseae
- Subtribus: Coelogyneinae
- Genus: *Coelogyne* Lindl.
- Species: *Coelogyne occultata* Hook.f.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Coelogyneae

Genus: *Coelogyne* Lindl.

Species: *Coelogyne occultata* Hook.f.

4. Distribution:

Global: China South-Central, India, Myanmar, Tibet

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

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grow as epiphytes or lithophytes at 1400-1600 m in Khasi Jaintia hills, tetraploid cytotype grows as lithophyte in Arunachal Pradesh at 2500 m

8.Life Form:Phanerophyte

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{19, 21, 26}, 20^{22}$

13. Zygotic chromosome number(s): $2n=38^{19, 21, 26}$, 40^{22} , 76^{17}

14. Gametic chromosome number(s): $n=20^{22}$, $38^{19, 21}$

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

Image file

16.Ploidy level:Diploid^{19, 21, 22, 26} ,

Tetraploid^{17, 19, 21}

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 meiosis: Diploid: 20II^{22}

Tetraploid: 38II^{19} ,

Image file

27. Chromosome distribution at anaphase I: Tetraploid: 38:38 distribution at A-I ^{19, 21}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):