Species Datasheet

Datasheet No. A-061.035.020
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Coelogyneovalis*Lindl.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Coelogynearunachalensis H.J.Chowdhery & G.D.Pal
Coelogynedecora Wall. ex Voigt
Coelogynefuliginosa Lodd. ex Hook.
Coelogynelongiciliata Teijsm. & Binn.
Coelogynepilosissima Planch.
Pleionefuliginosa (Lodd. ex Hook.) Kuntze

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribus: Arethuseae
- Subtribus: Coelogyninae
- Genus: *Coelogyne* Lindl.
- Species:*Coelogyne ovalis* Lindl.

Bentham and Hooker(1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Coelogyneae
Genus: *Coelogyne* Lindl.
Species: *Coelogyne ovalis* Lindl.

4.Distribution:

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

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows as epiphyte on branches of trees in thick forests of Kumaon hills at 1200-3000m.

8.Life Form: Phanerophyte

9.Economic Importance: Cultivated ornamental, medicinal, pseudobulbs used as aphrodisiac

10. Probable Progenitor of:

11.DNA
C-value **Methodology**

12.Basic chromosome number(s):x=20 [9, 13, 14, 15, 20, 21, 22, 26, 30, 31, 36]

13. Zygotic chromosome number(s):2n=40[9, 13, 14, 15, 20, 22, 26, 31, 36] , 80[2]

14. Gametic chromosome number(s):n=20[9, 15, 21, 22, 30, 36]

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

Image file

16.Ploidy level: Diploid[9, 13, 14, 15, 20, 22, 26, 31, 36]

Tetraploid[2]

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, 4 subterminal pairs[9, 14, 15]

Chromosome size Small[9, 14, 15]

NOR chromosome(s)

Degree of asymmetry Symmetrical[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 meiosis20II [9, 15, 30]

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;Translocationsetc.):