Species Datasheet

Datasheet No. A-061.074.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species**:** *Pleionemaculata* (Lindl.) Lindl.& Paxton
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Coelogynearthuriana*Rchb.f.
Coelogynediphylla (Lindl. & Paxton) Lindl.
*Coelogynemaculata*Lindl.
Coelogynemaculata var. *virginea*Rchb.f.
Gomphostyliscandida Wall. ExLindl.
*Pleionediphylla*Lindl. & Paxton
Pleionemaculata var. *arthuriana* (Rchb.f.) Rolfe
Pleionemaculata var. *virginea* (Rchb.f.) Karth.
Pleionemaculata var. *virginea*Rchb. f.

3.Systematic Position:
APG IV (2016)

- Kingdom: Plantae
- Clade: Angisperms
- Clade: Monocots
- Order: Asparagales Link
- Family: OrchidaceaeJuss.
- Subfamily: Epidendroideae
- Tribe: Arethuseae
- Subtribe:Coelogyninae
- Genus: *Pleione*D.Don
- Species: *Pleione maculata* (Lindl.) Lindl.& Paxton

4.Distribution:

Global: Yunnan China, India, Nepal, Laos, Myanmar, Thailand and Vietnam in highland primary cloud forests at elevations of 600 to 2000 m

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Small sized, cool to cold growing epiphytic herb

8.Life Form: Phanerophytes

9.Economic Importance: Cultivated ornamental, rhizome is used for liver and stomach ailments

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=20[2,5, 6]

13. Zygotic chromosome number(s):2n=40[2, 5, 6]

14. Gametic chromosome number(s):n=

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

Image file

16.Ploidy level: Diploid[2, 5, 6]

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

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.):