

Species Datasheet

Datasheet No. A-061.074.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pleionehumilis* (Sm.) D.Don

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Coelogynehumilis* \(Sm.\) Lindl.](#)

[*Coelogynehumilis* var. *albata* Rchb.f.](#)

[*Coelogynehumilis* var. *tricolor* Rchb.f.](#)

[*Cymbidiumhumile* \(Sm.\) Lindl.](#)

[*Dendrobiumhumile* \(Sm.\) Sm.](#)

[*Epidendrumhumile* Sm.](#)

[*Pleionediantha* Schltr.](#)

[*Pleionehumilis* var. *adnata* Pfitzer](#)

[*Pleionehumilis* var. *purpurascens* Pfitzer](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Arethuseae
- Subtribe: Coelogyninae
- Genus: *Pleione* D.Don
- Species: *Pleione humilis* (Sm.) D.Don

4. Distribution:

Global: India, Nepal, Bhutan, Sikkim and Myanmar in cloud forests at elevations of 1100 to 3500 m

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

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows as a lithophyte or epiphyte in very moist places among moss plants on vertical rocks at 1500 m

8.Life Form:Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20$ ^{8, 9, 10, 13, 16, 17, 18}

13. Zygotic chromosome number(s): $2n=40$ ^{8, 9, 10, 13, 16, 17, 18} , $40+1-3B$ ⁶ , 60 ¹⁷

14. Gametic chromosome number(s): $n=20$ ^{8, 10}

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes): $1-3 B$ 's⁶

Image file

16.Ploidy level:Diploid^{8, 9, 10, 13, 16, 17, 18}

Triploid¹⁷

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:¹⁷

Karyotype Median, submedian¹⁷

Chromosome size Small¹⁷

NOR chromosome(s)

Degree of asymmetry Symmetrical¹⁷

Image file

22. Banding pattern(s):C Banding¹⁷

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 2011^{8, 10}

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.):