

Species Datasheet

Datasheet No. A-061.072.008
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Pinalialeucantha*Kuntze

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:*Eria alba*Lindl., *Octomeria alba* (Lindl.) Wall. ex Hook.f

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: OrchidaceaeJuss.
- Subfamily: Epidendroideae
- Tribe: Podochileae
- Genus: *Pinalia*Lindl.
- Species: *Pinalialeucantha*Kuntze

4.Distribution:

Global:India, Nepal, Bhutan, Myanmar

India: Arunachal Pradesh, Himachal Pradesh, Mizoram, Nagaland, Sikkim, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Epiphyte grows in dense forest at 1500-1900m

8.Life Form:Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20$ ¹⁹

13. Zygotic chromosome number(s): $2n=34$ ¹² ,⁴⁰¹⁹

14. Gametic chromosome number(s): $n=17$ -¹⁹¹⁴

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

Image file

16.Ploidy level:Diploid¹⁹

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):PMCs with 17-19 IIs frequently observed¹⁴, ¹⁶

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 17-19 II ^{14, 16}

Image file

27.Chromosome distribution at anaphase I:Irregularities result in monads, dyads, triads and tetrads ^{14, 16}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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