Species Datasheet

Datasheet No. A-061.072.013 **DBT- Network Programme**
(family.genus.species)

1.Taxon:

Species**:** *Pinaliaspicata* (D.Don) S.C.Chen&J.J.Wood
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*Eriaconvallarioides*Lindl., *Eriasalwinensis*Hand.-Mazz., *Eria spicata* (D.Don) Hand.-Mazz., *Octomeriaconvallarioides* Wall. ex Lindl., *Octomeria spicata*D.Don, *Pinalia alba* Buch.-Ham. ex Lindl., *Pinaliasalwinensis* (Hand.-Mazz.) Ormerod

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angisperms
- Clade: Monocots
- Order: Asparagales Link
- Family: OrchidaceaeJuss.
- Subfamily: Epidendroideae
- Tribe: Podochileae
- Genus: *Pinalia*Lindl.
- Species: *Pinalia spicata* (D.Don) S.C.Chen&J.J.Wood

4.Distribution:

Global: Myanmar, India, Thailand, Nepal, China, Vietnam China, Nepal, Laos, Myanmar, Thailand and Vietnam on wooded slopes on trees and in valley forests on rocks at elevations of 800 to 2800 m

India: Arunachal Pradesh, Assam, Sikkim, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Pseudobulbous, warm to cold growing epiphyte or lithophyte

8.Life Form: Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=19[1, 2, 4, 9, 10, 11, 21], 20[15, 17, 18]

13. Zygotic chromosome number(s):2n=38[2, 4, 9, 10, 11, 21] ,36[3]

14. Gametic chromosome number(s):n=19[1] , 20[15, 17, 18] , 19,20, 22-26[14, 16] , 20+2B[22]

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

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16.Ploidy level: Diploid[1, 2, 4, 9, 10, 11, 15, 17, 18, 21, 22]

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 22-26 IIs observed in a population[14, 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 meiosis20 II at diakinesis but in some variant PMC's 19 II's observed, in a different population 22 to 26 II's were noticed in different PMC's, early disjunction, non-congression and lagging bivalents frequent at M-I [14, 16]

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.):