

Species Datasheet

Datasheet No. A-061.097.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Smitinandiamicrantha* (Lindl.) Holttum

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Ceratochilus micranthus* (Lindl.) Lindl., *Cleisostoma micranthum* (Lindl.) King & Pantl., *Cleisostoma petitiiana* Guillaumin, *Cleisostoma poilanei* Gagnep., *Cleisostoma tixieri* Guillaumin, *Gastrochilus parviflorus* Kuntze, *Pomatocalpa poilanei* (Gagnep.) Tang & F.T.Wang, *Saccolabium fissum* Ridl., *Saccolabium micranthum* Lindl., *Uncifera albiflora* Guillaumin

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Smitinandia* Holttum
- Species: *Smitinandia micrantha* (Lindl.) Holttum

4.Distribution:

Global: Borneo, Cambodia, China South-Central, India, Laos, Malaya, Myanmar, Nepal, Thailand, Vietnam

India: Arunachal Pradesh, Assam, Chhattisgarh, Jharkhand, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Sikkim, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows as epiphyte distributed in Kumaon hills between 800-1100m

8.Life Form: Phanerophytes

9.Economic Importance: Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (4.19 pg)¹ Flow cytometry¹

12. Basic chromosome number(s): $x=19$ ^{1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12}

13. Zygotic chromosome number(s): $2n=38$ ^{1, 2, 3, 5, 6, 8, 11, 12}

14. Gametic chromosome number(s): $n=19$ ^{2, 4, 5, 6, 7, 9, 10}

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

Image file

16. Ploidy level: Diploid^{1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12}

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes: 2, 4, 5

Karyotype Median, submedian, 4 pairs subterminal^{2, 4, 5}

Chromosome size Small^{2, 4, 5}

NOR chromosome(s)

Degree of asymmetry Fairly asymmetrical^{2, 4, 5}

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 19 II 2, 4, 5, 7, 9, 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;Translocationsetc.):