

Species Datasheet

Datasheet No. A-061.070.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Peristylusduthiei* (Hook.f.) Deva &H.B.Naithani

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

*Herminiumduthiei*Hook.f.

Monorchisduthiei (Hook.f.) O.Schwarz

Peristylusduthiei var. *inayatii* Deva &H.B.Naithani

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Orchidoideae
- Tribe: Orchideae
- Subtribe: Orchidinae
- Genus: *Peristylus* Blume
- Species: *Peristylusduthiei* (Hook.f.) Deva &H.B.Naithani

4. Distribution:

Global: Bangladesh, Cambodia, China South-Central, China Southeast, East Himalaya, India, Japan, Korea, Myanmar, Nansei-shoto, Nepal, Thailand, Vietnam

India: Arunachal Pradesh, Goa, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial tuberous herb, moist temperate to alpine region, grows under the trees and on clay soil at 2400 m

8. Life Form: Cryptophytes

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{8, 11, 13, 25}$

13. Zygotic chromosome number(s): $2n=40,80^{11, 25}$

14. Gametic chromosome number(s): $n=20^{8, 11, 13, 25}$

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

Image file

16.Ploidy level:Diploid^{8, 11, 13, 25},

Tetraploid^{11, 25}

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: $n=20^{6, 13}$

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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