

Species Datasheet

Datasheet No. P-042.005.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pneumatopteris truncata* (Poir.) Holttum

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Dryopteristruncata (Poir.) Kuntze

Nephrodiumtruncatum (Poir.) C. Presl

Pneumatopteristruncata var. *truncata*

Polypodiumtruncatum Poir.

Polystichumtruncatum (Poir.) Gaudich.

3. Systematic Position:

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- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Thelypteridaceae Pic. Serm.
- Subfamily:
- Genus: *Pneumatopteris* Nakai
- Species: *Pneumatopteris truncata* (Poir.) Holttum
- Subspecies:
- Variety:

4. Distribution:

Global: Fragmented distribution over Asia and Malesia. The Australian distribution is restricted to Christmas Island

India: West Bengal (Darjeeling), Uttarakhand (Chamoli), Tamil Nadu (Annamalais and Tirunelveli hills)

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

6.Threat Status:

IUCN:Critically endangered

BSI:

7.Habit and Habitat:Large upright fern, the fronds have aerophores at the base of pinnae.

Grows in colonies on permanently moist sites in semi-deciduous closed forest between 50 and 140 m elevation

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=36^{3, 4, 5, 6, 7, 8, 10}$

13. Zygotic chromosome number(s): $2n=72^{10}$,

c. 144^9

14. Gametic chromosome number(s): $n=36^{3, 4, 5, 6, 7, 8}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{3, 4, 5, 6, 7, 8, 10}$,

Tetraploid (sexual) ⁹

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 36II^{3, 4, 5, 6, 7, 8}

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.):