

Species Datasheet

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Datasheet No. P-030.012.015
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pteris excelsa* Gaudich.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Pteris excelsa var. *excelsa*

Pteris inaequalis var. *aequata* (Miq.) Tagawa

Pteris kleiniana Christ

Pteris semipinnata var. *aequata* Miq.

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Pteridoideae C. Chr. Ex Crabbe, Jermy & Mickel
- Genus: *Pteris* L.
- Species: *Pteris excelsa* Gaudich.
- Subspecies:
- Variety:

4. Distribution:

Global: India, Pakistan, Nepal, Bhutan, China, Taiwan, Japan, Korea, Philippines, Polynesia, Malaysia, Hawaii

India: Jammu & Kashmir, Himachal Pradesh, Sikkim, Darjeeling, Arunachal Pradesh

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows in extremely moist places along the streamlets in densely shaded ravines in forests. Frequent, but locally common fern from 2000-2400m altitude, Turturia, Khati, between Dhakuri to Khati, Jhuni, Vhakhuwa, jaitoli, Karmi

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=29^{7, 22, 28, 29, 34, 41, 47, 49, 51, 52, 73, 75}$

13. Zygotic chromosome number(s): $2n=58^{7, 22, 34, 41, 47, 49, 87^{49}, 116^7}$

14. Gametic chromosome number(s): $n=29^{28, 29, 51, 52, 73, 75}$

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

Image file

16.Ploidy level:Diploid (sexual) ^{7, 22, 28, 29, 34, 41, 47, 49, 51, 52, 73, 75} ,

Triploid⁴⁹ ,

Tetraploid(sexual) ⁷

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^{28, 29, 51, 52, 73, 75}

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.):