

Species Datasheet

Datasheet No. P-030.012.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pteris aspericaulis* Wall. ex J. Agardh

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Pterisaspericaulis var. *aspericaulis*

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 aspericaulis* Wall. ex J. Agardh
- Subspecies:
- Variety:

4. Distribution:

Global: India, Nepal, Tibet, China, Thailand, N Myanmar

India: Jammu & Kashmir (rare), Himachal Pradesh, Sikkim, Darjeeling, Arunachal Pradesh

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows on moist shaded localities forming large clumps along the road sides, way sides or in humus rich forest floor. An extremely common fern throughout the region from 1800-2400m altitude, Dhakuri, Sikhar, Loharkhet, Khati, Chakhuwa

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=29^{21, 64}$

13. Zygotic chromosome number(s): $2n=58^{21, 64, 73}$

14. Gametic chromosome number(s): $n=29^{62, 64, 58}$

⁷³

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

Image file

16.Ploidylevel:Diploid (sexual) ^{62, 64,}

Diploid (apogamous) ⁷³

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 meiosisDiploid: $2n$ ^{62, 64},

Diploid (apogamous): 8-celled sporangium $5n$ ⁷³

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.):Apogamy⁷³