

Species Datasheet

Datasheet No. P-030.012.043
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Pteris stenophylla* Wall. ex Hook. & Grev.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Pteriscretica var. *stenophylla* (Wall. ex Hook. & Grev.) Baker

Pterispellucida var. *stenophylla* (Wall. ex Hook. & Grev.) C.B. Clarke

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 stenophylla* Wall. ex Hook. & Grev.
- Subspecies:
- Variety:

4.Distribution:

Global: India, Nepal, Thailand, Bhutan, Laos, Philippines

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows in rather humid locations on calcareous gravelly soils. A frequent fern from 1000-1600m altitude, Sarju valley, Bharari, between Dhakuri to Khati

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=29^{43, 52}$

13. Zygotic chromosome number(s): $2n=58^{52}$

14. Gametic chromosome number(s): $n=29^{43, 52},$
 58^{52}

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

Image file

16.Ploidylevel:Diploid (sexual) $^{43, 52},$
Diploid (apogamous) 52

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 Diploid (sexual): 29II ^{43, 52}

Diploid (apogamous): 8-celled sporangium 58II ⁵²

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.): Apogamy⁵²