

Species Datasheet

Datasheet No. P-045.006.023
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Polystichum mehrae* Fraser-Jenk. & Khullar

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Polystichumacanthophyllum var. *indicum* Christ

Polystichummehrae f. *latifundus* H.S. Kung & L.B. Zhang

Polystichummehrae f. *mehrae*

3.Systematic Position:

Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Polystichum* Roth
- Species: *Polystichum mehrae* Fraser-Jenk. & Khullar
- Subspecies:
- Variety:

4.Distribution:

Global: E-Tibet, China (Yunnan, W-Sichuan), Pakistan (Hazara),India, Bhutan, Myanmar , Nepal

India: Himachal Pradesh, Kashmir, Uttar Pradesh, Sikkim, Darjeeling, Nagaland, Arunachal Pradesh, Manipur, Mizoram

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=41^{10, 23, 38, 45}$

13. Zygotic chromosome number(s): $2n=c.160-164^{16}$

14. Gametic chromosome number(s): $n=82^{10, 23, 38, 45}$

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

Image file

16.Ploidylevel:Tetraploid (sexual) $^{10, 16, 23, 38, 45}$

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 Tetraploid : 82II 10, 23, 38, 45

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.):