

Species Datasheet

Datasheet No. P-045.006.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Polystichum acanthophyllum* (Franch.) Christ

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

*Aspidiumacanthophyllum*Franch.

Polystichumaculeatum var. *acanthophyllum* (Franch.) Bedd.

*Polystichumhorridipinnum*Hayata

*Polystichumspinescens*Tagawa

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 acanthophyllum* (Franch.) Christ
- Subspecies:
- Variety

4.Distribution:

Global:SE-Tibet, China (Yunnan, W-Sichuan), TaiwanTaiwan. Tibet SE part, China (Sichuan W part, Yunnan west part and NW part,)

India: Himalayas 3000-4000m

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

12.Basic chromosome number(s): $x=41^{22, 38, 39}$

13. Zygotic chromosome number(s): $2n=$

14. Gametic chromosome number(s): $n=41^{22, 38, 39}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{22, 38, 39}$

Image file

17.Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

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 41 II^{22, 38, 39}

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.):