

Species Datasheet

Datasheet No. P-045.006.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Polystichum aculeatum* (L.) Roth ex Mert.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidiumlobatum (Huds.) Sw.

Polypodiumlobatum Huds.

Polystichumlobatum (Huds.) C. Presl

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Polystichum* Roth
- Species: *Polystichum aculeatum* (L.) Roth ex Mert.
- Subspecies:
- Variety

4.Distribution:

Global: Europe, most abundant in upland regions of the British Isles and western France, China (Xinjiang), W Asia,

India: Himalayas –Uttarakhand, Meghalaya, Himachal Pradesh, Sikkim, South India-Shevroy hills, Kodaikanal

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Evergreen fern

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
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12. Basic chromosome number(s): $x=41$ ^{6, 39, 54, 58, 59}

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

14. Gametic chromosome number(s): $n=41$ ^{6, 39, 54, 58, 59} ,

⁸² 11, 12, 13, 14, 39

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

Image file

16. Ploid level: Diploid (sexual)^{6, 39, 54, 58, 59} ,

Tetraploid (sexual)^{11, 12, 13, 14, 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 Diploid: 41 II^{6, 39, 54, 58, 59},

Tetraploid: 82II^{11, 12, 13, 14,39}

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.):