

Species Datasheet

Datasheet No. P-045.006.004
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Polystichum auriculatum* (L.) C. Presl

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Polypodium auriculatum L.

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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 auriculatum* (L.) C.Presl
- Subspecies:
- Variety

4.Distribution:

Global: China, Taiwan, Tibet, Japan, Korea, Singapore, Myanmar[Burma], Pakistan, Bangladesh, Nepal, Bhutan, Thailand

India: S-India-Kodaikanal, Palni Hills, Munnar, NE-India-Sikkim, Darjeeling, Central India- Pachmarhi

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): $x=41^{2, 3, 6, 15, 18, 30, 35, 50, 51, 54, 58}$

13. Zygotic chromosome number(s): $2n=82^{35, 50, 51}$

14. Gametic chromosome number(s): $n=41^{2, 3, 6, 15, 18, 30, 35, 50, 51, 54, 58}$,
 $82^{4, 52, 53}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{2, 3, 6, 15, 18, 30, 35, 50, 51, 54, 58}$,
Tetraploid (sexual) $^{4, 52, 53}$

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 :41II^{2, 3, 6, 15, 18, 30, 35, 50, 51, 54, 58},

Tetraploid: 82II^{4, 52, 53}

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.):