

Species Datasheet

Datasheet No. P-045.006.018
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Polystichum lonchitis* (L.) Roth

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidium lonchitis (L.) Sw.

Polypodium lonchitis L.

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 lonchitis* (L.) Roth
- Subspecies:
- Variety:

4. Distribution:

Global: native to much of the Northern Hemisphere from Eurasia to Alaska to Greenland and south into mountainous central North America

India: Kashmir

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): $x=41$ ^{9, 19, 22, 26, 27, 32, 44, 56, 61}

13. Zygotic chromosome number(s): $2n=82$ ^{19, 27, 32, 33, 44, 56}

14. Gametic chromosome number(s): $n=41$ ^{9, 22, 26, 32, 44, 61},
c. 82 ⁵⁶

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

Image file

16. Ploid level: Diploid (sexual)^{9, 19, 22, 26, 27, 32, 44, 56, 61},

Tetraploid (sexual)⁵⁶

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: $41\text{II}^9, 22, 26, 32, 44, 61$,

Tetraploid: $c.82\text{II}^{56}$

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.):