

Species Datasheet

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Datasheet No. P-045.006.015
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Polystichum lachenense* (Hook.) Bedd.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidium lachenense Hook.

Polystichum sinkiangense Ching ex Chang Y. Yang

Polystichum xinjiangense Ching ex C.Y. Yang

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 lachenense* (Hook.) Bedd.
- Subspecies:
- Variety

4. Distribution:

Global: China (Gansu, Sichuan, Xinjiang, Yunnan), Tibet, Taiwan, Japan, India, Myanmar, Pakistan (Swat), Pakistani Kashmir (Gilgit, Hazara), Nepal, Bhutan, Aleutes (Adak Isl., Atka Isl.)

India: Kashmir, Sikkim, Uttarakhand

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): $x=41^{57, 58}$

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s): $2n=41^{57, 58}$,
 $82^{22, 38, 39}$

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

Image file

16.Ploidy level:Diploid (sexual) $^{57, 58}$,
Tetraploid(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, 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 Diploid : 41II ^{57, 58} ,

Tetraploid: 82II ^{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;Translocationsetc.):