

Species Datasheet

Datasheet No. P-041.002.025
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Athyrium pectinatum* (Wall. ex Mett.) T. Moore

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspleniumfilix-femina var. *pectinatum* Wall. ex C.B. Clarke

Aspleniumpectinatum Wall. ex Mett.

Athyriumfilix-femina subsp. *pectinatum* (Wall. ex Mett.) Á. Löve & D. Löve

Athyriumfilix-femina var. *pectinatum* (Wall. ex Mett.) Bedd.

3.Systematic Position:

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- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Athyriaceae Alston
- Subfamily:
- Genus: *Athyrium* Roth
- Species: *Athyrium pectinatum* (Wall. ex Mett.) T.Moore
- Subspecies:
- Variety:

4.Distribution:

Global:

India: Throughout Indian region 1500-2100m

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): $x=40$ ^{8, 11, 12, 13, 18, 19, 20, 21, 22, 38, 47, 49, 53, 64}, ⁴¹^{47, 67}

13. Zygotic chromosome number(s): $2n=82$ ^{47, 67}

14. Gametic chromosome number(s): $n=40$ ^{8, 11, 12, 13, 18, 19, 20, 21, 22, 38, 47, 49, 53, 64},

⁴¹⁶⁷,

⁸⁰^{23, 68, 69}

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

Image file

16. Ploidy level: Diploid (sexual)^{8, 11, 12, 13, 18, 19, 20, 21, 22, 38, 47, 49, 53, 64, 67},

Diploid (hybrid, sterile)⁴⁷,

Tetraploid (sexual) ^{23, 68, 69}

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: 40II^{8, 11, 12, 13, 18, 19, 20, 21, 22, 38, 47, 49, 53, 64}, 41II⁶⁷

Diploid (hybrid, sterile): 15II+50I⁴⁷,

Tetraploid: 80II^{23, 68, 69}

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.):