

Species Datasheet

Datasheet No. P-041.002.032
(family.genus.species)

1.Taxon:

Species: *Athyrium schimperi* Moug. ex Fée

DBT- Network Programme

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aspleniumfilix-femina* var. *polyspora* C.B. Clarke](#)

[*Aspleniumschimperi* \(Moug. ex Fée\) A. Braun](#)

[*Athyriumbiserrulatum* Christ](#)

[*Athyriumfilix-femina* var. *polyspora* \(C.B. Clarke\) Bedd.](#)

[*Athyriumsolenopteris* Moore](#)

[*Athyriumwumonshanicum* Ching](#)

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Athyriaceae Alston
- Subfamily:
- Genus: *Athyrium* Roth
- Species: *Athyrium schimperi* Moug. ex Fée
- Subspecies:
- Variety:

4.Distribution:

Global:Ethiopia, Cameroon, South Africa (Mpulamanga, KwaZulu-Natal, E-Cape Prov.), Lesotho, Zambia, Zimbabwe, Malawi, Kenya, Tanzania, Madagascar, Angola

India: Himalayas, South India, 1500-2100m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Around exposed boulders in moist situation or in light shade in forest

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=40$ ^{7, 9, 13, 18, 21, 30, 38, 47, 48, 50, 53}

13. Zygotic chromosome number(s): $2n=80$ ³⁰

14. Gametic chromosome number(s): $n=40$ ^{7, 9, 13, 18, 21, 38, 47, 49, 50, 53}, 80 ^{23, 32, 68, 69}, 120 ²⁸

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

Image file

16.Ploidy level:Diploid (sexual)^{7, 9, 13, 18, 21, 30, 38, 47, 48, 50, 53},

Tetraploid (sexual)^{23, 32, 68, 69},

Hexaploid (sexual)²⁸

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: 40II^{7, 9, 13, 18, 21, 38, 47, 49, 50, 53},

Tetraploid: 80II^{23, 32, 68, 69},

Hexaploid: 120II²⁸

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.):