

Species Datasheet

Datasheet No. P-041.002.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Athyrium anisopterum* Christ

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidiumfauriei var. *elatus* Christ

Aspleniummacrocarpon var. *atkinsonii* Hook. & Baker

Athyrium × *heterosporum* Y.T. Hsieh & Z.R. Wang

Athyriummacrocarpon var. *atkinsonii* (Hook. & Baker) Tardieu

Athyriumthysanocarpa Hayata

Dryopteristhysanocarpa (Hayata) Hayata

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 anisopterum* Christ
- Subspecies:
- Variety:

4. Distribution:

Global: China (Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Sichuan, Yunnan), Tibet, Taiwan, India (Himachal Pradesh, Uttar Pradesh, Sikkim, Darjeeling, Arunachal Pradesh, Assam, S-India), Nepal, Sri Lanka, Myanmar [Burma], Vietnam, Philippines (Luzon), peninsular Malaysia (Cameron Highlands, Pahan), Java, Borneo (Mt. Kinabalu, etc.), N-Thailand

India: India (Himachal Pradesh, Uttar Pradesh, Sikkim, Darjeeling, Arunachal Pradesh, Assam, S-India)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:On humus-rich floor of dense evergreen forests above 1800 m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=40^{1,9, 11, 12, 13, 15, 17, 18, 38, 50}$, $41^{6, 61}$

13. Zygotic chromosome number(s): $2n=160^{28}$, c. 160^{45} , $164^{6, 61}$

14. Gametic chromosome number(s): $n=40^9, 11, 12, 13, 15, 17, 18, 38$, $80^{1, 15, 50}$, $82^{6, 61}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{9, 11, 12, 13, 15, 17, 18, 38}$,

Tetraploid (sexual)¹, 6, 15, 28, 45, 50, 61

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 : 40 II^{9, 11, 12, 13, 15, 17, 18, 38},

Tetraploid: 80 II^{1, 15, 50}, 82 II^{6, 61}

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.):