

Species Datasheet

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Datasheet No. P-041.002.034
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Athyrium sikkimense* (Bir) Á. Löve & D. Löve

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Pseudocystopteris sikkimensis* (Bir) 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 sikkimense* (Bir) Á.Löve & D.Löve
- Subspecies:
- Variety:

4.Distribution:

Global: China (Chongqing, Gansu, Hubei, Qinghai, Shaanxi, Sichuan, SE Xizang, Yunnan), Bhutan, N India, Nepal

India: Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Moist areas in forests 2100-4000m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=40^{7, 8, 22, 47}$

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

14. Gametic chromosome number(s): $n=40^{7, 8, 22, 47}, 80^{21}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{7, 8, 22, 47}$,

Tetraploid (sexual) 21

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: $40\text{II}^{7, 8, 22, 47}$,

Tetraploid : 80II^{21}

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.):