

Species Datasheet

Datasheet No. P-037.001.045
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Asplenium unilaterale* Lam.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Asplenium excisum C. Presl

Asplenium resectum Sw.

Asplenium resectum var. *rahaoense* Hayata

Asplenium szechuanense Ching

Asplenium trapeziforme Wall. ex Hook.

Asplenium unilaterale var. *majus* (C. Chr.) Sledge

Asplenium unilaterale f. *majus* C. Chr.

Asplenium unilaterale var. *rahaoense* (Hayata) Hayata

Asplenium unilaterale var. *unilaterale*

Hymenasplenium rahaoense (Hayata) H. Itô ex Tuyama

Hymenasplenium unilaterale (Lam.) Hayata

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Aspleniaceae Newman
- Subfamily:
- Genus: *Asplenium* L.
- Species: *Asplenium unilaterale* Lam.
- Subspecies:
- Variety:

4.Distribution:

Global: Angola, Bioko, Cameroon, Central African Republic, Cote d'Ivoire, Ethiopia, Ghana, Guinea, Kenya, Liberia, Malawi, Niger, Nigeria, Principe, Soa Tomé, Sierra Leone, Sudan, Tanzania, Uganda, Zimbabwe, Madagascan region

India: Himalayas, South India ,Grows abundantly in eastern Himalayas 900-2100m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Deeply shaded stream banks in evergreen forest. Terrestrial or lithophyte.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):36^{84, 86},38^{4, 7, 11, 13, 15, 62, 64, 73},39^{55, 101},40^{4, 7, 13, 15, 65, 80, 86, 122, 123, 136, 137}

13. Zygotic chromosome number(s):c.72^{84, 76}^{4, 7, 11, 13, 15},c.78^{55, 78}^{101, 112}^{4, 7, 11, 13}
116¹, 120^{4, 7, 13, 15}, 152^{62, 64, 73}, 160⁸⁶

14. Gametic chromosome number(s):n=39¹⁰¹,40^{65, 80, 136, 137}, 72⁸⁶ ,
76^{62, 64, 73}, 80^{86, 122, 123}

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

Image file

16.Ploidylevel:Diploid (sexual)^{4, 6, 11, 13, 15, 16, 65, 80, 98, 136, 137} , Diploid (hybrid)^{4, 7, 11, 13, 15} ,
Triploid (Hybrid)^{1, 4, 7, 11, 13} , Triploid^{4, 7, 13, 15} , Tetraploid (sexual)^{62, 64, 65, 122, 123}

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):Allotrploid^{4, 7, 11, 13} ,
Autotriploid^{4, 7, 13, 15}

19.Genomic formula:ABB^{4, 7, 11, 13}

20.A 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 : 40II⁴, 6, 11, 13, 15, 16, 65, 80, 98, 136, 137 ,

Diploid (hybrid): 76I⁴, 7, 11, 13, 15 ,

Triploid (Hybrid): 36II+40I, 37II+38I⁴, 7, 11, 13 ,

Triploid: 6III+31II+40I⁴, 7, 13, 15 ,

Tetraploid: 80II^{122, 123}

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.):