Species Datasheet

Datasheet No. P-037.001.044 (family.genus.species)

DBT- Network Programme

1.Taxon:

Species: Asplenium trichomanes L.

Subspecies: Variety: Cultivar Hybrid

Image file

2. Synonyms:

<u>AspleniummelanocaulonWilld.</u>
<u>Aspleniumtrichomanes</u> subsp. trichomanes
<u>Chamaefilixtrichomanes</u> (L.) Farw.

3.Systematic Position:

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

4. Distribution:

Global:widespread in <u>temperate</u> and <u>subarctic</u> areas and also occurs in mountainous regions in the <u>tropics</u>. Its range includes most of Europe and much of Asia south to <u>Turkey</u>, <u>Iran</u> and the <u>Himalayas</u> with a population in <u>Yemen</u>, in northern, southern and parts of eastern Africa and eastern <u>Indonesia</u>, south-east Australia, <u>Tasmania</u>, New Zealand and <u>Hawaii,North America</u> and <u>Central America</u> and <u>Cuba</u>, and the northern and western regions of <u>South America</u> such as <u>Chile</u>.

India: Himalayas	
5.Indigenous/Exotic/Endemic;Cul	ltivated/Wild:
6.Threat Status:	
IUCN:Least concern	
BSI:	
7.Habit and Habitat:	
8.Life Form:	
9.Economic Importance:	
10. Probable Progenitor of:	
11.DNA	
C-value Methodology	
2C: 12.20 pg ¹²⁷	Flow cytometry ¹²⁷
2C: 15.90 pg ¹¹⁷	Flow cytometry ¹¹⁷
2C: 18.11pg ²	Flow cytometry ²
12.Basic chromosome number(s): 98, 108, 130, 140, 141, 146	x =36 ³ ,11, 16, 20, 21, 26, 31, 45, 60, 61, 68, 76, 78, 81, 82, 85, 90, 91, 92, 93, 94, 95,
20, 100, 100, 110, 111, 110	
13. Zygotic chromosome number((s):2n=72 ^{45, 68, 78} , 108 ^{133, 141} ,
144 ³ , 26,61, 76, 81, 82, 90, 91, 92, 93, 94,	, 95, 130, 140

14. Gametic chromosome number(s):n=36^{11, 16, 20, 21, 31, 60, 85, 98, 108, 140, 141, 146,}

 $72^{3, 16, 24, 30, 96, 115, 116, 134, 140, 142}, c.72^{107, 131}, 108^{27}, 144^{115, 116}$

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene
chromosomes/Neocentric chromosomes):
Image file
16.Ploidylevel: Diploid (sexual) ^{11, 16, 20, 21, 45, 60, 75, 85, 98, 108, 146} , Triploid ¹⁴⁰ ,
Tetraploid(sexual) ^{3, 10, 21, 24, 96, 107, 115, 134} , Hexaploid (sexual) ²⁷ ,
Octoploid (sexual) ^{115, 116}
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	fil	le

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26.Chromosome associations:

Female meiosis

Male meiosisDiploid: 36II^{11, 21, 85, 108},

Tetraploid: 72II³, 10, 16, 21, 24, 96, 116, 134,

Hexaploid: 108II^{27, 115, 116},

Octoploid: 144II¹¹⁵, **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.):