

Species Datasheet

Datasheet No. P-037.001.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Asplenium adiantum-nigrum* L.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Asplenium adiantum-nigrum var. *adiantum-nigrum*

Asplenium andrewsii A. Nelson

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 adiantum-nigrum* L.
- Subspecies:
- Variety:

4.Distribution:

Global: :Africa, Asia , Europe, Macaronesia, North America, Oceania,

Mexico

India: In dry places from Kashmir to Shimla (Himalayas), 1200-2700m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows in the crevices of shady rocks

8.Life Form:

9.Economic Importance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value

2C: 10.80 pg¹¹⁷

2C: 15.90 pg¹¹⁷

Methodology

Flow cytometry¹¹⁷

Flow cytometry¹¹⁷

12.Basic chromosome number(s): $x=36$ ^{11, 16,34, 35, 43, 44, 75, 98, 105, 109, 110, 113, 114, 115, 116, 118, 119, 125, 146}

13. Zygotic chromosome number(s): $2n=c.140$ ³⁹ , 144 ^{34, 75}

14. Gametic chromosome number(s): $n=72$ ^{11, 16,34, 35, 43, 44, 98, 105, 109, 110, 113, 114, 115, 116, 118, 119, 125, 146, 108}^{115, 116}

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

Image file

16.Ploidylevel:Tetraploid (sexual)^{11, 16,34, 35, 43, 44, 98, 105, 109, 110, 113, 114, 115, 116, 118, 119, 125, 146},
Hexaploid (sexual)^{115, 116}

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Allotetraploid¹²⁵

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 72II^{11, 16, 34, 35, 43, 44, 75, 98, 105, 109, 110, 113, 114, 115, 116, 118, 119, 125, 146,}
108II^{115, 116}

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.):