Species Datasheet

Datasheet No. P-030.002.019
(family.genus.species)

1.Taxon:

DBT- Network Programme

Species: *Adiantum pedatum* L.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Adiantumpedatum var. *aleuticum*Rupr.
Adiantumpedatum f. *billingsae*Kittr.
Adiantumpedatum var. *kamtschaticum*Rupr.
Adiantumpedatum f. *laciniatum*Weath.
Adiantumpedatum subsp. *pedatum*
Adiantumpedatum var. *pedatum*
Adiantumpedatum f. *pedatum*

3.Systematic Position:
Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Vittarioideae (C. Presl) Crabbe, Jermy & Mickel
- Genus: *Adiantum* L.
- Species: *Adiantum pedatum* L.
- Subspecies:
- Variety:

4.Distribution:

Global: North America, East Asia

India: Widespread in Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (10.25pg) [2]	Flow cytometry[2]Bainard et al 2011

12.Basic chromosome number(s):x=29[28, 36, 42, 54, 61, 65, 100],30[56]

13. Zygotic chromosome number(s):2n=58, 60, 87, 118, 120[59] ,58[36]

14. Gametic chromosome number(s):n=30[56]

29[28, 42, 54, 61, 65, 100] , 58 [61,62]

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

Image file

16.Ploidy level: Diploid[56, 59] ,

Diploid (aneuploid)[28, 42, 54, 59, 65, 100] ,

Triploid (aneuploid)[59]

Tetraploid (Aneuploid)[59, 61, 62],

Tetraploid[59]

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: 30II[56]

Diploid:29II[28, 61, 100] , 29II, 54I+2II[65]

Tetraploid:58II, 57II+2I, 56II+RIV, 56II+chIV[62]

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.):