Species Datasheet

Datasheet No. P-030.002.020
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Adiantum peruvianum* Klotzsch
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms: Nil

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 peruvianum* Klotzsch
Subspecies:
Variety:

4.Distribution:

Global: South America. It is native to Ecuador, Peru and Bolivia

India: Maharashtra, Gujarat, Goa - Panaji, West Bengal , Karnataka - Banglore, Uduppi and Kerala - Ernakulam, Grukula Botanical Garden, Wyna

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:

8.Life Form:

9.EconomicImportance: Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=30[26, 67, 69, 70, 73, 74, 75, 92]

13. Zygotic chromosome number(s):2n=60[67, 69, 70, 73, 74, 75, 92]

120 (due to misdivision during spore formation)[74]

14. Gametic chromosome number(s):n=30[26, 38, 85]

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

Image file

16.Ploidylevel: Diploid (sexual) [26, 38, 67, 85, 92]

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty): Aneuploidy (2n=56-62 in the progeny of tetraploid)[92]

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[26, 38, 67, 85], 6-18I+21-27II, mean 11.3I+24.2II rarely IIIs or multivalents[69, 70, 73, 74, 75]

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.):