

Species Datasheet

Datasheet No. P-029.001.001

(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Odontosoria chinensis* (L.) J.Sm.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Adiantumchusanum L.

Adiantumtenuifolium Lam.

Davalliatenuifolia (Lam.) Sw.

Odontosoriachinensis var. *divaricata* Christ

Odontosoriapalmii H. Rosend.

Odontosoriatenuifolia (Lam.) J. Sm.

Sphenomerischinensis var. *divaricata* (Christ) K.U. Kramer

Sphenomerischusana (L.) Copel.

Stenolomatenuifolium (Lam.) Fée

Trichomaneschinense L.

3.Systematic Position:

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- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Lindsaeaceae C.Presl ex M.R.Schomb.
- Subfamily:
- Genus: *Odontosoria* Fée, Mém. Foug.
- Species: *Odontosoria chinensis* (L.) J.Sm.
- Subspecies:

4.Distribution:

Global:East Asia to Polynesia

India: Kerala (Idukki, Thiruvananthapuram, Palakkad districts)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial, Growing on earth cuttings in Semi-evergreen and evergreen forests at high altitudes.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=47^{1, 5, 6, 7, 11}$, $50^{4, 8}$

13. Zygotic chromosome number(s): $2n=94^1$,

$c.147^3$

14. Gametic chromosome number(s): $n=c.40^{9, 10}$,

$94^{5, 6, 7, 11}$,

$c.100^{4, 8}$,

$145-147^8$

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

Image file

16.Ploidylevel:Diploid (sexual) ^{9, 10} ,

Tetraploid (sexual)^{4, 5, 6, 7, 8, 11} ,

Hexaploid (sexual) ⁴

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 : c.40II^{9, 10},

Tetraploid : 94II^{5, 6, 7, 11}, c.100II^{4, 8},

Hexaploid: 145-147II⁸

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.):