Species Datasheet

Datasheet No. P-006.001.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Botrychium daucifolium* Wall. ex Hook. & Grev.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Sceptridiumdaucifolium(Wall. ex Hook. &Grev.) Lyon

3.Systematic Position:
Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Botrychium* Sw.
- Species: *Botrychium daucifolium* Wall. ex Hook. & Grev.
- Subspecies:
- Variety:

4.Distribution:

Global: China (Chongqing, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Jiangxi, Sichuan, ?Yunnan, Zhejiang), NE-India (Khasia Hills), S-India, Japan, Ryukyu Isl., Philippines, Sri Lanka, peninsular Malaysia (GunungJasah, Cameron Highlands, Pahan), Borneo (Mt. Kinabalu, etc.), Myanmar [Burma], Java, Bhutan, Sumatra, Nepal, Vietnam, Moluccas (Seram), Sulawesi, Fiji (VitiLevu), Western Samoa (Savaii, Upolu)

India: Northeast**,** Kerala (Idukki, Palakkad and Wayanad districts)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Evergreen and shola forests., Terrestrial

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=45[3, 6, 8, 12, 14]

13. Zygotic chromosome number(s):2n=180[9, 12]

Manton & Sledge 1954

Nishida, Kurita &Niizeki 1964

14. Gametic chromosome number(s):n=90[3, 6, 8, 12, 14]

Manickam, V. S. 1984. Cytology of thirty species of ferns from the Palni Hills (South India).Cytologia 49: 49–59.

Raj, V. I. & V. S. Manickam. 1987. SOCGI plant chromosome number reports -- IV [i.e., V]. J. Cytol. Genet. 22: 156–161.

GHATAK, J. 1977. Biosystematic survey of pteridophytes from Shevaroy Hills, south India. Nucleus 20: 105–108.

Sankari Ammal1990

Nishida M, Kurita S ,Niizeki S 1964 Cytotaxonomy of Ophioglossales II. Chromosome numbers in Sceptridium. Journal of Japanese Botany 39: 140-144

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level: Tetraploid (sexual)[3, 6, 8, 9, 12, 14]

Manickam, V. S. 1984. Cytology of thirty species of ferns from the Palni Hills (South India).Cytologia 49: 49–59.

Raj, V. I. & V. S. Manickam. 1987. SOCGI plant chromosome number reports -- IV [i.e., V]. J. Cytol. Genet. 22: 156–161.

GHATAK, J. 1977. Biosystematic survey of pteridophytes from Shevaroy Hills, south India. Nucleus 20: 105–108.

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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 meiosis45II3, 6, 8, 14

Manickam, V. S. 1984. Cytology of thirty species of ferns from the Palni Hills (South India).Cytologia 49: 49–59.

Raj, V. I. & V. S. Manickam. 1987. SOCGI plant chromosome number reports -- IV [i.e., V]. J. Cytol. Genet. 22: 156–161.

GHATAK, J. 1977. Biosystematic survey of pteridophytes from Shevaroy Hills, south India. Nucleus 20: 105–108.

Sankari Ammal1990

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.):