Species Datasheet

Datasheet No. P-008.001.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Osmunda hugeliana* C.Presl (unresolved)

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position:
Christenhusz 2011 :

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Osmundales Link
- Family: Osmundaceae Martinov
- Subfamily:
- Genus: *Osmunda* L.
- Species: *Osmunda hugeliana* C.Presl (unresolved)
- Subspecies:

4.Distribution:

Global: Distributed widely in southern and central India

India: In Tamil Nadu it is found in the Anamalai Hills and Palni Hills , and Kerala in Kakkayam (Kozhikode), Munnar and Devikolam (Idukki), Ponmudi (Thirvanathapuram), Chandanathode (Wayanad), Vagamon (Kottayam), Silent Valley (Pallakad), Tirunelli and Vythiri (Wayanad), Aralam Wildlife Sanctuary (Kannur).

5.Indigenous/Exotic/Endemic;Cultivated/Wild:endemic to India

6.Threat Status:

IUCN: Least Concern ver 3.1

BSI:

7.Habit and Habitat: It grows gregariously on rocky banks of streams and rivers and exposed marshy areas at high altitude, above 700 m.

8.Life Form:

9.Economic Importance: The species is used as medicine

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=22[13, 14, 18]

13. Zygotic chromosome number(s):2n=

14. Gametic chromosome number(s):n=22[13, 14, 18]

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

Image file

16.Ploidy level: Diploid (sexual) [13, 14, 18]

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 meiosis22II[13, 14, 18]

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.):