Species Datasheet

Datasheet No. P-045.010.012
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Dryopteris cochleata* (D. Don) C. Chr.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Aspidiumcochleatum (D. Don) Christ
Aspidiumerythrosorum var. *souliei* Christ
Aspidiumfilix-mas var. *cochleatum* (D. Don) Christ
Dryopterisfilix-mas var. *cochleata* (D. Don) Alderw.
Dryopterisheleopteroides Christ
Lastreacochleata (D. Don) T. Moore
Lastreafilix-mas var. *cochleata* (D. Don) Bedd.
Nephrodiumcochleatum D. Don
Nephrodiumfilix-mas var. *cochleatum* (D. Don) Hook.

3.Systematic Position:
Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Dryopteris* Adans.
- Species: *Dryopteris cochleata* (D. Don) C.Chr.
- Subspecies:
- Variety

4.Distribution:

Global: India, Myanmar, Malay Peninsula, China, Thailand, Bhutan, Java, Pakistan, Philippines, Taiwan and Nepal

India: Northwest Himalayas ,Kerala (Kannur, Wayanad, Palakkad, Idukki and Thiruvananthapuram districts, 600-900m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: In grasslands an forests of high altitudes, Terrestrial

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=41[4,5, 11, 18, 25, 26, 38, 43, 48, 55, 56, 65, 66, 69, 70, 71, 79, 83, 84]

13. Zygotic chromosome number(s):2n=82[4, 5, 65, 66, 69, 70, 71, 79]

14. Gametic chromosome number(s):n=41[4, 5, 11, 18, 25, 26, 38, 43, 48, 55, 56, 65, 66, 69, 70, 71, 79, 83, 84]

82[35, 68]

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

Image file

16.Ploidy level: Diploid (sexual)[4, 5, 11, 18, 25, 26, 38, 43, 48, 55, 56, 65, 66, 69, 70, 71, 79, 83, 84]

Tetraploid (sexual)[35, 68]

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:[71]

KaryotypeMedian, submedian and subterminal[71]

Chromosome size Small[71]

NOR chromosome(s)

Degree of asymmetry Moderately asymmetrical[71]

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: 41II[4, 5, 11, 18, 25, 26, 38, 43, 48, 55, 56, 65, 66, 69, 70, 71, 79, 83, 84]

Tetraploid: 82II[35, 68]

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.):