

Species Datasheet

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Datasheet No. P-051.004.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Drynaria quercifolia* (L.) J. Sm.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Polypodium quercifolium L.

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Polypodiaceae J. Presl & C. Presl
- Subfamily: Drynarioideae Crabb, Jermy & Mickel
- Genus: *Drynaria* (Bory) J. Sm.
- Species: *Drynaria quercifolia* (L.) J. Sm.
- Subspecies:
- Variety:

4. Distribution:

Global: Bangladesh, India, Pakistan, North America, and Africa

India: Eastern Himalayas, Peninsular India

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Epiphytic or lithophytic fern

8.Life Form:

9.Economic Importance: It is an ethno medicinal plant used widely in Tamil Nadu to treat arthritis, Whole plant is anthelmintic, pectoral, expectorant and tonic; used in the treatment of phthisis, hectic fever, dyspepsia, skin diseases and cough. The fronds are used for cough and poulticing swellings

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $n=36^{13, 14}, 37^{4, 8, 9}$

13. Zygotic chromosome number(s): $2n=74^{4, 8, 9}$

14. Gametic chromosome number(s): $n=36^{13, 14}, 37^{2, 3, 6, 8, 10, 11, 16}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{2, 3, 4, 6, 8, 9, 13, 14, 16}$

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 36II^{13, 14}

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.):