

Species Datasheet

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Datasheet No. P-045.010.007
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dryopteris blanfordii* (C. Hope) C. Chr.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Dryopteris blanfordii subsp. *blanfordii*

Dryopteris gongboensis Ching

Nephrodium blanfordii C. Hope

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Dryopteris* Adans.
- Species: *Dryopteris blanfordii* (C. Hope) C. Chr.
- Subspecies:
- Variety

4. Distribution:

Global: China (Gansu, Sichuan, Xizang, Yunnan), Afghanistan, India, Nepal, Pakistan

India: Western Himalayas

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: In *Picea* or *Abies* forests; 2900-3500 m

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
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12. Basic chromosome number(s): $x=41$ ^{19, 38, 54}

13. Zygotic chromosome number(s): $2n=123$ ^{19, 38, 54}

14. Gametic chromosome number(s): $n=123$ ^{19, 38, 54}

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

Image file

16. Ploid level: Triploid (apogamous)^{19, 38, 54}

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 Triploid (apogamous): 16-celled sporangium 41II+41I, 8-celled sporangium 123II⁵⁴

Mehra&Khullar 1980, 8-celled sporangium 123II^{19, 38, 54}

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.): Apogamy^{19, 38, 54}