Species Datasheet

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Datasheet No. P-045.010.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Dryopteris atrata* (Wall. ex Kunze) Ching

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Dryopterishirtipes var. *atrata* (Wall. ex Kunze) C. Chr.
Nephrodiumatratum (Wall. ex Kunze) Hand.-Mazz.

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 atrata* (Wall. ex Kunze) Ching
- Subspecies:
- Variety

4.Distribution:

Global: China (Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hainan, Hubei, Hunan, Jiangsu, Jiangxi, Shaanxi, Shandong, Shanxi, Sichuan, Yunnan, Zhejiang), Taiwan, Tibet, Bhutan, NE-India, Myanmar , Nepal, Sri Lanka, Thailand, Vietnam

India: NE-India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Broad-leaved evergreen forests; 500-2300 m.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=41[5, 61]

13. Zygotic chromosome number(s):2n=82[60],

123 [43, 56,70] ,

164[70]

14. Gametic chromosome number(s):n=41[5] ,

82[1, 70, 82] ,

123[23, 43, 56, 58, 70, 82]

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

Image file

16.Ploidylevel: Diploid (sexual)[5, 61] ,

Triploid [23, 58, 82] ,

Triploid (apogamous) [43, 56, 70] ,

Tetraploid (sexual)[1, 70, 82] ,

Hexaploid (sexual) [23, 58, 82]

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 Diploid: 41II[5] ,

Triploid: 41II+41I[82]

Triploid (apogamous): 16-celled sporangium 41II+41I, 8-celled sporangium 123II[43, 56, 70]

Tetraploid: 82II[1, 70, 82],

Hexaploid:123II [23, 58, 82]

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.): Apogamy[43, 56, 70]