

Species Datasheet

Datasheet No. P-031.005.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Hypolepis punctata* (Thunb.) Mett.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Dryopterispunctata (Thunb.) C. Chr.

Phegopterispunctata (Thunb.) Mett.

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dennstaedtiaceae Lotsy
- Subfamily:
- Genus: *Hypolepis* Bernh.
- Species: *Hypolepis punctata* (Thunb.) Mett.
- Subspecies:

4.Distribution:

Global: China (Anhui, Fujian, Guangdong, Guizhou, Jiangsu, Jiangxi, Sichuan, Yunnan, Zhejiang), Taiwan, Cambodia, Japan, Korea, Laos, Malaysia, Philippines, Sri Lanka, Vietnam; Australia, tropical America

India: Throughout Himalayas, peninsular India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Near streams, dense forests; 100-2400 m.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=49^{6, 7, 15},$

$50^{16},$

$52^{1, 2, 3, 5, 9, 10, 13, 17, 18, 19, 20, 21}$

13. Zygotic chromosome number(s): $2n=116^8,$

$c.150^{11},$

$200^{16},$

$c.200^4$

14. Gametic chromosome number(s): $n=52^{1, 2, 3, 9, 19},$

$51-53^{11}$

$c.92^{14},$

$98^{6, 7, 15},$

$c.100^{11},$

$c.102^{12},$

104^{2, 5, 13, 17, 18, 20, 21} ,

c.104¹⁰

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

Image file

16.Ploidylevel:Diploid (sexual)^{1, 2, 3, 9, 11, 19} ,

Tetraploid (sexual)^{2, 5, 10, 13, 17, 18, 20, 21}

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: 52 II^{1, 2, 5, 17, 20} Ghatak 1977, Bir & Vasudeva 1979, Irudayaraj & Manickam 1987, Manickam & Irudayaraj 1988, Sankari Ammal 1990

Tetraploid: 104 II^{2, 5, 13, 17, 18, 20} Mehra & Verma 1960, Roy et al 1971, Ghatak 1977, Khullar et al 1988, Singh & Roy 1988, Punetha 1989

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.):

