

Species Datasheet

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Datasheet No. P-006.001.002
- (family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Botrychium lanuginosum* Wall. ex Hook. & Grev.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Botrychium lanuginosum var. *lanuginosum*

Osmundopteris lanuginosa (Wall. ex Hook. & Grev.) Nishida

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Botrychium* Sw.
- Species: *Botrychium lanuginosum* Wall. ex Hook. & Grev.
- Subspecies:
- Variety:

4.Distribution:

Global: India to China and Taiwan, south to Sri Lanka, Vietnam, Philippines, Java and Sumatra.

India: Peninsular India 200-3000m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=45^{1, 8, 10, 11, 14, 15}$

13. Zygotic chromosome number(s): $2n=180^{1, 10, 11}$

Ninan 1956b, 1958c, Abraham et al 1962

14. Gametic chromosome number(s): $n=90^{8, 11, 14, 15}$

Ninan1958c, Verma& Loyal 1960a, Manickam 1984, SankariAmmal 1990

92^3

Ghatak 1977

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

Image file

16.Ploidylevel:Tetraploid (sexual) $^{1, 3, 8, 10, 11, 14, 15}$

Ninan 1958c, Verma& Loyal 1960a, Manickam 1984, SankariAmmal 1990

Ghatak 1977

Ninan 1956b, 1958c, Abraham et al 1962

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 90II^{8, 11, 14, 15}

Ninan 1958c, Verma & Loyal 1960a, Manickam 1984, Sankari Ammal 1990

92II³ Ghatak 1977

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.):