Species Datasheet

Datasheet No. P-051.024.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Leptochilus decurrens* Blume

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Acrostichumvariabile Hook.
Anapausiadecurrens (Blume) C. Presl
Gymnopterisfeei T. Moore
Gymnopterisvariabilis (Hook.) Bedd.
*Leptochiluslanceolatus*Fée
Paraleptochilusdecurrens (Blume) Copel.

3.Systematic Position:
Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Polypodiaceae J. Presl& C. Presl
- Subfamily: Microsoroideae B.K. Nayar
- Genus: *Leptochilus* Kaulf.
- Species: *Leptochilus decurrens* Blume
- Subspecies:
- Variety:

4.Distribution:

Global: China (Guizhou, Hainan, Yunnan); French Polynesia; India; Indonesia (Jawa, Kalimantan, Sumatera); Japan; Malaysia; Myanmar; Papua New Guinea (Papua New Guinea (main island group)); Philippines; Sri

Lanka; Taiwan, Province of China; Thailand; Viet Nam

India: Kerala, Tamil Nadu

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: It grows in the middle elevation and high elevation forests on rocks and base of shrubs and trees near shady streams , Terrestrial

8.Life Form:

9.EconomicImportance: This fern is used for medicine by the Kani tribal people, Tirunelveli of Tamil Nadu

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=36[1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 17, 19, 20]

37[15, 16]

13. Zygotic chromosome number(s):2n=72[11] ,74[15, 16]

14. Gametic chromosome number(s):n=36[1, 2, 3, 4, 5, 6, 9, 10, 12, 14, 17, 19, 20] ,

72[6, 7] ,

74[15, 16]

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

Image file

16.Ploidylevel: Diploid (sexual) [1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 17, 19, 20] ,

Diploid (apogamous)[15, 16] ,

Tetraploid (sexual)[6, 7]

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: 36II[1, 2, 3, 4, 5, 8, 9, 10, 12, 14, 17, 19, 20]

Diploid (apogamous): 8-celled sporangium 74II [15, 16]

Tetraploid: 72II[6, 7]

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[15, 16]