

Species Datasheet

Datasheet No. P-031.006.012
(family.genus.species)

1.Taxon:

DBT- Network Programme

Species: *Microlepia speluncae* (L.) T. Moore

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidiumspeluncae (L.) Willd.

Davalliaflaccida R. Br.

Davalliaspeluncae (L.) Baker

Polypodiumspeluncae L.

Scyphofilixspeluncae Farw.

3.Systematic Position:

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- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dennstaedtiaceae Lotsy
- Subfamily:
- Genus: *Microlepia* C.Presl
- Species: *Microlepia spaluncae* (L.) T.Moore
- Subspecies:

4.Distribution:

Global: China (Guangdong, Guangxi, Guizhou, Hainan, Xizang, Yunnan) , Taiwan, Bhutan, Cambodia, India, Indonesia, Japan (Ryukyu Islands), Laos, Myanmar, Nepal, Philippines, Sri Lanka, Thailand, Vietnam; Africa, Australia (Queensland), Pacific islands (Polynesia), South America (Brazil), West Indies].

India: Eastern Himalayas (Darjeeling), South India (western Ghats), 200-1000m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Roadsides, shrublands; below 100-1100 m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C: 15.88 pg²²Flow cytometry²²

12.Basic chromosome number(s): $x=43^{6, 11, 12, 13, 14, 16, 17, 20, 22, 27, 28, 29}$,
 $44^{1, 3}$

13. Zygotic chromosome number(s): $2n=c.84^7$,

86^{27} ,

$172^{13, 20, 22, 27}$,

$258^{11, 12}$

14. Gametic chromosome number(s): $n=43^{6, 14, 16, 17, 28, 29}$,

$86^{13, 20}$,

44^3 ,

88^1

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

Image file

16.Ploidylevel:Diploid (sexual) $^{6, 7, 14, 16, 17, 27, 28, 29}$,

Tetraploid (sexual) $^{13, 20, 22, 27}$,

Tetraploid (aneuploid, sexual) 3 ,

Hexaploid (sexual) $^{11, 12}$

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 meiosisDiploid: $43\text{II}^{17, 27}$,
 44II^3

Tetraploid : 43IV , 86II^{27} ,

$86\text{II}^{13, 20}$,

88II^1

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.):