Species Datasheet

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Datasheet No. P-051.026.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Microsorum membranaceum* (D.Don) Ching

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Pleopeltisgrandifolia (Wall. ex Christ) T. Moore
Pleopeltismembranacea (D. Don) T. Moore ex Bedd.
Polypodiumgrandifolium Wall. ex Christ
*Polypodiumhymenodes*Kunze
Polypodiummembranaceum D. Don
Polypodiummembranaceum var. *grandifolium* (Wall. ex Christ) Alderw.
Polypodiumtransparens C. Presl ex Ettingsh.

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: *Microsorum* Link
- Species: *Microsorum membranaceum* (D.Don) Ching
- Subspecies:
- Variety:

4.Distribution:

Global:: India, Nepal, Bhutan, Tibet, China, Taiwan, Vietnam, Thailand, Phillipines, SriLanka

India: Jammu & Kashmir, Himachal Pradesh, Sikkim, Darjeeling, Assam, Arunachal Pradesh, Meghalaya, Nagaland, Manipur, central India, Pachmarhi hills, south India, Mahabaleshwar, Khandala, Purandar

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows as an lithophyte on wet rocks along river banks and besides water falls or in forest as an epiphyte. Fairly common from 1500-2700m altitude, way to Pindari, Loharkhet

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA
C-value Methodology

12.Basic chromosome number(s):x=36[3, 4, 7, 9, 15, 16, 17, 22, 23,24, 25, 26, 28, 36, 37, 38, 39] ,
37[18, 27, 31]

13. Zygotic chromosome number(s):2n=72[22, 23, 28, 30] ,
74 [27, 31]

14. Gametic chromosome number(s):n=36 [3, 4, 7, 9, 15, 16, 17, 22, 23,24, 25, 26, 28, 36, 37, 38, 39] ,
37[18, 27],

72[2, 6, 14]

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

Image file

16.Ploidy level: Diploid (sexual) [3, 4, 7, 9, 15, 16, 17, 18, 22, 23, 24, 25, 27, 28, 30, 31, 36, 37, 38, 39] ,

Tetraploid (sexual)[2, 6, 14]

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:[23]

KaryotypeAllsubterminal except one median[23]

Chromosome size Medium[23]

NOR chromosome(s)

Degree of asymmetry Asymmetrical[23]

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[2, 3, 7, 9, 15, 16, 17, 22, 23, 24, 25, 26, 28, 36,37, 38, 39] ,

37II[18, 27, 30, 31] ,

Diploid (hybrid): 22II+28I, 21II+30I[4] ,

Tetraploid: 72II[2, 6, 14]

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.):