

Species Datasheet

Datasheet No. P-009.005.004

(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Hymenophyllum polyanthus* Sw.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Hymenophyllum alfredii* Rosenst.](#)

[*Hymenophyllum blumeianum* Spreng.](#)

[*Hymenophyllum botryoides* Bosch](#)

[*Hymenophyllum coreanum* Nakai](#)

[*Hymenophyllum costaricanum* Bosch](#)

[*Hymenophyllum costaricanum* var. *emarginatum* Rosenst.](#)

[*Hymenophyllum fecundum* Bosch](#)

[*Hymenophyllum fujisanense* Nakai](#)

[*Hymenophyllum hayatai* Masam.](#)

[*Hymenophyllum himalaianum* Bosch](#)

[*Hymenophyllum integrum* Bosch](#)

[*Hymenophyllum jalapense* Schltdl. & Cham.](#)

[*Hymenophyllum mexiae* \(Copel.\) C.V. Morton](#)

[*Hymenophyllum microsorum* Bosch](#)

[*Hymenophyllum millefolium* Schltdl. & Cham.](#)

[*Hymenophyllum osmundoides* Bosch](#)

[*Hymenophyllum parallellocarpum* Hayata](#)

[*Hymenophyllum polyanthos* var. *minor* Bedd.](#)

[*Hymenophyllum punctisorum* Rosenst.](#)

[*Hymenophyllum tenellum* D. Don](#)

[*Hymenophyllum trichomanoides* var. *subalatum* Rosenst.](#)

[*Mecodium macrocarpum* Ching](#)

[*Mecodium coreanum* \(Nakai\) Seriz.](#)

[*Mecodium fujisanense* \(Nakai\) Sugim.](#)

[*Mecodium hainanense* Ching](#)

[*Mecodium likiangense* Ching & P.S. Chiu](#)

Mecodiumlofoushanense Ching & P.S. Chiu

Mecodiumlushanense Ching & P.S. Chiu

Mecodiummexiae Copel.

Mecodiummicrosorium (Bosch) Ching

Mecodiumosmundoides (Bosch) Ching

Mecodiumovalifolium Ching & P.S. Chiu

Mecodiumpolyanthos (Sw.) Copel.

Mecodiumszechuanense Ching & P.S. Chiu

Mecodiumwangii Ching & P.S. Chiu

Trichomanespolyanthos Sw.

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Hymenophyllales A.B. Frank in J.L. Leunis
- Family: Hymenophyllaceae Mart.
- Subfamily:
- Genus: *Hymenophyllum* Sm.
- Species: *Hymenophyllum polyanthus* Sw.
- Subspecies:

4. Distribution:

Global: China (Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Sichuan, Taiwan, Zhejiang), tropical and subtropical regions worldwide

India:

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: On rocks or tree trunks near streams in forests; 800-1900(-3400) m

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=9^{3, 6, 8, 10, 11}$

13. Zygotic chromosome number(s): $2n=56^{10, 11}$

14. Gametic chromosome number(s): $n=27^8,$

$28^{1, 4, 12},$

$36^{3, 6}$

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

Image file

16.Ploidylevel:Hexaploid (sexual) $^{1, 4, 8, 12},$

Octoploid (sexual) $^{3, 6}$

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 Hexaploid: 27II^8 ,

Octoploid: $36\text{II}^{3, 6}$

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.):