

Species Datasheet

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Datasheet No. P-030.010.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Onychium contiguum* C.Hope (unresolved)

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Pteridoideae C. Chr. Ex Crabbe, Jermy & Mickel
- Genus: *Onychium* Kaulf.
- Species: *Onychium contiguum* C.Hope (unresolved)
- Subspecies:
- Variety:

4.Distribution:

Global: India, SW China and Taiwan

India: Eastern Himalayas (Darjeeling)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:On dry sandy slopes below limestone cliffs or in crevices of limestones in light shade.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=29^{1, 4, 5, 10, 14, 20, 21, 22, 24, 25}$

13. Zygotic chromosome number(s): $2n=58^{10, 21, 87^{24, 25}}$

14. Gametic chromosome number(s): $n=29^{1, 4, 5, 14, 20, 21, 22, 24, 25, 58^{10, 20, 87^{24, 25}}}$

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

Image file

16.Ploidy level:

Diploid (sexual) $^{1, 4, 5, 10, 14, 20, 21, 22, 24, 25}$,

Diploid (apogamous) $^{10, 21}$,

Triploid (apogamous) $^{24, 25}$

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: 29II^{1, 4, 5, 14, 20, 21, 22, 24, 25},

Diploid (apogamous): 8-celled sporangia 58II^{10, 21},

Triploid (apogamous): 8-celled sporangia 87II^{24, 25}

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.): Apogamy^{10, 21, 24, 25}