

Species Datasheet

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Datasheet No. P-030.010.003
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Onychium japonicum* (Thunb.) Kunze

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Onychium japonicum var. *japonicum*

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 japonicum* (Thunb.) Kunze
- Subspecies:
- Variety:

4.Distribution:

Global: India, China, Taiwan, south Korea, Japan, the Malay Peninsula and is naturalized in the Azores.

India: Himalayas (Uttarakhand-Mussoorie, Nainital; Darjeeling, Sikkim)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Stream banks, roadsides, forest margins, on calcareous soils, mountain slopes; 200-2400 m.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=29^{10, 11, 20, 21}$

13. Zygotic chromosome number(s): $2n=116^{2, 3, 6, 8}$

14. Gametic chromosome number(s): $n=29^{10, 11, 20, 21}$,
 $58^{12, 13}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{10, 11, 20, 21}$,

Tetraploid (sexual) $^{2, 3, 6, 8, 12, 13}$

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: $29\text{II}^{10, 11, 20, 21}$,

Tetraploid: $58\text{II}^{12, 13}$

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.):