

Species Datasheet

Datasheet No. P-042.002.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Christella dentata*(Forssk.) Brownsey & Jermy

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aspidium hispidulum* Decne.](#)

[*Aspidium molle* Sw.](#)

[*Aspidium violascens* Link](#)

[*Christella hispidula* \(Decne.\) Holttum](#)

[*Cyclosorus dentatus* \(Forssk.\) Ching](#)

[*Cyclosorus dentatus* var. *violascens* \(Link\) Abbiatti](#)

[*Dryopteris dentata* \(Forssk.\) C. Chr.](#)

[*Dryopteris hispidula* \(Decne.\) Kuntze](#)

[*Dryopteris mollis* \(Sw.\) Hieron.](#)

[*Dryopteris parasitica* Tardieu](#)

[*Dryopteris parasitica* var. *coriacea* Bonap.](#)

[*Hemetheum molle* \(Sw.\) Gand.](#)

[*Nephrodium dentatum* \(Forssk.\) Kümmerle](#)

[*Nephrodium hispidulum* \(Decne.\) Baker](#)

[*Nephrodium molle* \(Sw.\) R. Br.](#)

[*Nephrodium violascens* \(Link\) Fée](#)

[*Polypodium dentatum* Forssk.](#)

[*Polypodium molle* Schreb.](#)

[*Polystichum molle* \(Sw.\) Gaudich.](#)

[*Thelypteris dentata* \(Forssk.\) E.P. St. John](#)

[*Thelypteris dentata* var. *violascens* \(Link\) C.F. Reed](#)

[*Thelypteris hispidula* \(Decne.\) C.F. Reed](#)

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Thelypteridaceae Pic. Serm.
- Subfamily:
- Genus: *Christella* Ker-Gawl.
- Species: *Christella dentata* (Forssk.) Brownsey & Jermy
- Subspecies:
- Variety:

4. Distribution:

Global: Yunnan, Europe, New Zealand, Malaysia, Singapore, Thailand, Africa, North America,

India: Western Himalaya

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial, forested wetlands, damp woods and disturbed or open wet areas are typical habitats

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=36^{34, 49, 56}, 41^{41, 46}$

13. Zygotic chromosome number(s): $2n=72^{34, 49, 56}$,

c. 144^{56} ,

$144^{5, 10, 30, 31, 32, 35, 36}$,

$164^{41, 46}$

14. Gametic chromosome number(s): $n=36^{6, 7, 24, 25, 45, 54, 56}$,

$72^{3, 8, 9, 11, 13, 14, 15, 16, 17, 20, 22, 23, 24, 25, 27, 28, 29, 33, 37, 39, 40, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57}$

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

Image file

16. Ploid level: Diploid (sexual) $^{6, 7, 24, 25, 34, 45, 49, 54, 56}$,

Tetraploid (sexual) $^{3, 5, 8, 9, 10, 11, 13, 15, 16, 17, 14, 22, 23, 24, 25, 27, 28, 29, 33, 35, 37, 38, 39, 40, 43, 44, 46, 47, 49, 50, 51, 52, 53, 54, 56, 57}$

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

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: 36II^{6, 7, 24, 25, 45, 54, 56} ,

Tetraploid: 72II^{3, 8, 9, 11, 13, 14, 15, 16, 17, 20, 22, 23, 24, 25, 27, 28, 29, 33, 37, 39, 40, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57} ,

82II⁴⁶

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.):