

Species Datasheet

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Datasheet No. P-001.004.002
- (family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Lycopodium clavatum* L.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Lepidotis ciliata P.Beauv.

Lepidotis clavata (L.) P.Beauv.

Lepidotis inflexa P.Beauv.

Lycopodium aristatum Humb. & Bonpl. ex Willd.

Lycopodium aristatum var. *desvauxianum* Spring

Lycopodium aristatum var. *incurvum* Grev. & Hook.

Lycopodium aristatum var. *robustius* Grev. & Hook.

Lycopodium ciliatum (P. Beauv.) Sw.

Lycopodium clavatum var. *aristatum* (Humb. & Bonpl. ex Willd.) Spring

Lycopodium clavatum var. *borbonicum* Bory

Lycopodium clavatum subsp. *clavatum*

Lycopodium clavatum f. *clavatum*

Lycopodium clavatum var. *clavatum*

Lycopodium clavatum var. *desvauxianum* Spring

Lycopodium clavatum var. *equisetoides* Schwacke

Lycopodium clavatum var. *eristachys* (Fée) Nessel & Hoehne

Lycopodium clavatum var. *inflexum* (P.Beauv.) Spring

Lycopodium clavatum var. *jamaicense* Spring

Lycopodium clavatum var. *minarum* Christ

Lycopodium clavatum var. *nataliense* Nessel

Lycopodium clavatum var. *piliferum* (Raddi) Nessel & Hoehne

Lycopodium clavatum var. *preslianum* Spring

Lycopodium clavatum var. *raddianum* Spring

Lycopodium clavatum var. *robustius* (Grev. & Hook.) Nakai

Lycopodium clavatum var. *trichiatum* (Bory) Nessel

Lycopodium clavatum var. *trichophyllum* (Desv.) Nessel & Hoehne

Lycopodium eriostachys Fée

Lycopodium inflexum (P.Beauv.) Sw.

Lycopodium piliferum Raddi

Lycopodium preslii Grev. & Hook.

Lycopodium trichiatum Bory

Lycopodium trichiatum var. *desvauxianum* Spring

Lycopodium trichophyllum Desv.

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Lycopodiidae Bek.
- Order: Lycopodiales DC. ex Bercht & J.Presl
- Family: Lycopodiaceae P.Beauv. & J.Presl
- Subfamily:
- Genus: *Lycopodium* L.
- Species: *Lycopodium clavatum* L.
- Subspecies:
- Variety:

4.Distribution:

Global:Cosmopolitan,widespread distribution across several continents

India: North East Region (Darjeeling, Bhuta, Meghalaya)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Lithophytic, confined to undisturbed sites, disappearing from farmed areas and sites with regular burning. As a result, it is endangered in many areas

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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2C (5.71 pg) ¹	Flow cytometry ¹
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2C (5.72pg) ³	Flow cytometry ³
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12.Basic chromosome number(s): $x=17,34^{4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15}$

13. Zygotic chromosome number(s): $2n=68^{4, 5, 12, 13, 14, 102^{12, 14, 136^{2, 12, 14}}$

14. Gametic chromosome number(s): $n=34^{6, 8, 9, 10, 11, 12, 15, 68^2}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, \text{Triploid}^{12, 14, \text{Tetraploid}(\text{sexual})^{2, 12, 14}}$

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: $34\text{II}^{6, 8, 9, 10, 11, 12, 14}$,

Triploid: 34III^{14} ,

Tetraploid: 34IV^{14} , 68II^2

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.):