

Species Datasheet

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Datasheet No. P-006.003.001
- **(family.genus.species)**

DBT- Network Programme

1.Taxon:

Species: *Helminthostachys zeylanica* (L.) Hook.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Ophialazeylanica*(L.) Desv.

3.Systematic Position: Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Helminthostachys* Kaulf.
- Species: *Helminthostachys zeylanica* (L.) Hook.
- Subspecies:
- Variety:

4.Distribution:

Global:E. Asia - China, India, Sri Lanka, Thailand, Malaysia, Indonesia, Australia, New Caledonia.

India: Kerala (Kannur, Malappuram and Thiruvananthapuram districts)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial, Common on the edges of vine forest, in alluvial soils by streams, rivers or billabongs or in rich, organic, black soils on the margins of Melaleuca swamps in northern Queensland

8.Life Form:

9.Economic Importance:The rhizome is tonic, it is used in the treatment of malaria, dysentery, catarrh. It is eaten with beetel in the treatment of whooping cough

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=47^{2, 4, 5, 7}$

13. Zygotic chromosome number(s): $2n=188^{5, 6}$

14. Gametic chromosome number(s): $n=94^{2, 4, 5, 7}$, c.90⁸, $94+4^2$, $92-94^4$

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

Image file

16.Ploidylevel:Tetraploid (sexual)^{2,4, 5, 7}

Tetraploid (aneuploid)^{2, 4, 8}

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 94II 2, 4, 5, 7

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.):