

Species Datasheet

Datasheet No. P-042.009.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Sphaerostephanos arbuscula* (Willd.) Holttum

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidium arbuscula Willd.

Aspidium hookeri Sweet

Cyclosorus arbusculus (Willd.) Ching

Dryopteris arbuscula (Willd.) Kuntze

Nephrodium arbuscula (Willd.) Desv.

Nephrodium hookeri Houlston & Moore

Thelypteris arbuscula (Willd.) K. Iwats.

3. Systematic Position:

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- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Thelypteridaceae Pic. Serm.
- Subfamily:
- Genus: *Sphaerostephanos* J. Sm.
- Species: *Sphaerostephanos arbuscula* (Willd.) Holttum
- Subspecies:
- Variety:

4. Distribution:

Global: India, Sri Lanka, Malaysia, New Caledonia, La Réunion, Mauritius, Madagascar

India: Western Ghats, Kerala-Ponmudi, Munnar, Devicolam, Nadamore, Palni Hills

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat:

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
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12. Basic chromosome number(s): $x=36$ ^{1, 4, 9, 11, 14, 15}

13. Zygotic chromosome number(s): $2n=72$ ^{1, 4, 11, 14, 15}

14. Gametic chromosome number(s): $x=36$ ^{1, 4, 9, 14, 15}

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

Image file

16. Ploidy level: Diploid (sexual)^{1, 4, 9, 11, 14, 15}

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 36II^{1, 4, 9, 14, 15}

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.):