

Species Datasheet

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Datasheet No. P-041.005.018
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Diplazium subsinuatum* (Wall. ex Hook. & Grev.) Tagawa

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Asplenium lanceum Thunb.

Asplenium subsinuatum Wall. ex Hook. & Grev.

Athyrium lanceum (Thunb.) Milde

Diplazium tomitaroanum Masam.

Triblemmalancea (Thunb.) Ching

3. Systematic Position:

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- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Athyriaceae Alston
- Subfamily:
- Genus: *Diplazium* Swartz
- Species: *Diplazium subsinuatum* (Wall. ex Hook. & Grev.) Tagawa
- Subspecies:
- Variety:

4. Distribution:

Global: Sri Lanka, India to China, Indochina, Taiwan to Japan, south to Luzon and Borneo

India: Peninsular India

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

6.Threat Status:

IUCN:Least Concern (LC)

BSI:

7.Habit and Habitat:On sandstone boulders along streams in evergreen forests at about 1175 m alt.

8.Life Form:

9.EconomicImportance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=40^{23, 35}$

13. Zygotic chromosome number(s): $2n=160^{35}$,
 200^{42}

14. Gametic chromosome number(s): $n=80^{23}$,
 $123^{38, 39, 40}$

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

Image file

16.Ploidylevel:Tetraploid (sexual) $^{23, 35}$

Pentaploid ⁴² ,

Hexaploid (sexual)^{38, 39, 40}

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 Tetraploid: 80II^{23} ,

Hexaploid: $123\text{II}^{39, 40}$

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.):