

Species Datasheet

Datasheet No. P-051.007.004
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Phymatosorus lucidus* (Roxb.) Pic.Serm.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Microsorumlucidum (Roxb.) Copel.

Phymatodeslucida (Roxb.) Ching

3.Systematic Position:

Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Polypodiaceae J. Presl& C. Presl
- Subfamily: Microsoroideae B.K. Nayar
- Genus: *Phymatosorus*
- Species: *Phymatosorus lucidus* (Roxb.) Pic.Serm.
- Subspecies:
- Variety:

4.Distribution:

Global:

India: Western Ghats, Eastern Himalayas, Tamil Nadu, Andaman Nicobar Islands

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

12.Basic chromosome number(s): $x=36^{5, 7, 19, 22, 23}, 37^2$

13. Zygotic chromosome number(s): $2n=72^{22}$

14. Gametic chromosome number(s): $n=36^{5, 7, 19, 22, 23},$

$37^2,$

$72^{1, 4}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{2,5, 7, 19, 22, 23},$

Tetraploid (sexual) $^{1, 4}$

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 Diploid: $36\text{II}^{5, 7, 19, 22, 23}$,

37II^2

Tetraploid: $72\text{II}^{1,4}$

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.):