

Species Datasheet

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Datasheet No. P-051.029.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Phlebodium aureum* (L.) J. Sm.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Chrysopterisaurea (L.) Link

Pleopeltisaurea (L.) C. Presl

Polypodiumaureum L.

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Polypodiaceae J. Presl & C. Presl
- Subfamily: Polypodioideae B.K. Nayar
- Genus: *Phlebodium* (R.Br.) J.Sm.
- Species: *Phlebodium aureum* (L.) J.Sm.
- Subspecies:
- Variety:

4.Distribution:

Global: native to tropical and subtropical regions of the Americas. It is confined to the eastern side of the continents, extending north into the United States to Florida and the extreme southeast of Georgia, and south through the Caribbean (the Bahamas, Puerto Rico, and Lesser Antilles), and northern and eastern South America to Paraguay.

India: Western Ghats, Nilgiris

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:epiphytic, usually colonizing the canopies of tropical rainforests and the dwarf palms of subtropical forests.

8.Life Form:

9.Economic Importance:ornamental plant and in herbal medicine.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=37^{2, 3, 4}$

13. Zygotic chromosome number(s): $2n=74^{4, 5}$,

148^5 ,

185^1

14. Gametic chromosome number(s): $n=37^{2, 3, 4}$,

74^5

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

Image file

16.Ploidy level:Diploid (sexual)^{2, 3, 4},

Tetraploid (sexual)⁵,

Pentaploid (sterile)¹

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: $37\text{II}^{2, 3, 4}$,

Pentaploid: $74\text{II}+37\text{I}^1$

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.):