

Species Datasheet

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Datasheet No. P-006.002.008

- (family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Ophioglossum polyphyllum* A.Braun ex Schub.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:Nil

3.Systematic Position: Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Ophioglossum* L.
- Species: *Ophioglossum polyphyllum* A.Braun ex Schub.
- Subspecies:
- Variety:

4.Distribution:

Global:

India: Punjab (Hoshiarpur), Maharashtra (Pune, Mahabaleshwar, Lonawala, Khandala), Madhya Pradesh (Bhopal), Kerala (Ponmudi)

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): $x=30$ (Palaeobasic)¹¹, 120 (Neobasic) ¹¹

13. Zygotic chromosome number(s): $2n=$

14. Gametic chromosome number(s): $n=116,117^{25, 43}$,

120 ¹¹ ,

210²⁰ ,

215 ²⁰ ,

240 ¹⁴

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

Image file

16.Ploidylevel:Octoploid (aneuploid)/Diploid (aneuploid) ^{25, 43} ,

Octoploid /Diploid ¹⁴ ,

14-ploid/Tetraploid (aneuploid) ²⁰ ,

14-ploid(aneuploid)/Tetraploid (aneuploid)²⁰ ,

16-ploid/Tetraploid¹⁴

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 Octoploid (aneuploid)/Diploid (aneuploid) 116II, 117II^{25, 43},

Octoploid /Diploid 120II¹⁴,

14-ploid/Tetraploid (aneuploid) 210II²⁰,

14-ploid(aneuploid) /Tetraploid (aneuploid) 215II²⁰

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.):