

Species Datasheet

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Datasheet No. P-006.002.009
- (family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Ophioglossum reticulatum* L.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Ophioglossum peruvianum C. Presl

Ophioglossum vulgatum var. *reticulatum* (L.) Luerss. S

3.Systematic Position:

Christenhusz 2011

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

4.Distribution:

Global:Pantropical in distribution

India: Throughout India-Tamil Nadu (Kodayar, Kanikatti Hills, Marunduvalmalai, Alamparai Hills, Kolli Hills, Shevroy Hills; Kerala (Chembra Hills in Wayanad, Kanjoor in Ernakulam, Ponmudi in Thiruvananthapuram, Thangacherry in Kollam, Bihar, Madhya Pradesh

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

6.Threat Status:

IUCN:Least Concern [ver 3.1](#)

BSI:

7.Habit and Habitat:grows fully exposed sandy soil along the river and in laterite areas during the wet season .

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=30$ (Palaeobasic)^{14, 20} , 120 (Neobasic)^{14, 20}

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

232-240³⁸ ,

236³⁷ ,

247³⁷ ,

401³⁷ ,

c.404³⁷ ,

404-412³⁸ ,

c.762³⁷ ,

756-768³⁸ ,

782-790³⁸ ,

790³⁷ ,

c.1100²⁸ ,
1260¹ ,
1270-1288³⁸ ,
1280-82³⁷ ,

14. Gametic chromosome number(s):n=

88+2⁹ ,
100-126⁹
120²⁰ ,
c.230^{35, 36} ,
240¹⁴ ,
360^{6, 9, 14, 15} ,
420¹⁹ ,
425²⁸ ,
435²⁸ ,
436¹ ,
450²⁸ ,
c.450-460^{33, 34} ,
451¹ ,
480^{6, 9, 14, 15, 28} ,
495^{20, 28} ,
510¹⁴ ,
c.510-515²⁰ ,
c.528^{35, 36} ,
564¹ ,
566¹ ,
c.570²⁸ ,

570^{5, 28},

572¹,

631+10f¹,

720⁵

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

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16.Ploidy level:

6x aneuploidy⁹,

6x-8x aneuploid/2x aneuploid⁹,

8x /2x²⁰,

8x aneuploid/2x aneuploid³⁷,

14x aneuploid/2x aneuploid³⁷Sinha et al 1978

16x/4x¹⁴Khandelwal 1987b

24x /6x^{6, 9, 14, 15},

24x aneuploid/6x aneuploid³⁷,

26x aneuploid/6x aneuploid³⁷,

28x/7x¹⁹,

28x aneuploid/7x aneuploid¹,

30x aneuploid/8x aneuploid^{1, 28},

32x aneuploid/8x aneuploid²⁰,

32x /8x^{6, 9, 14, 15},

34x aneuploid/8x aneuploid²⁰,

34x/8x aneuploid^{14, 35, 36},

38x aneuploid/10x aneuploid^{1, 5},

42x aneuploid/10x aneuploid^{1, 27, 28, 37},

48x/12x⁵

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

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): 113II+10I, 119II+9I³⁷,

112-114II+8-12I³⁸,

14-ploid (aneuploid)/Diploid (aneuploid): 196II+9I, 196II+12I³⁷,

194-200II+6-12I³⁸,

24-ploid (aneuploid)/Hexaploid (aneuploid): c.378II+6I³⁷,

26-ploid (aneuploid)/Hexaploid (aneuploid): c.390II+10I, 375-380II+6-12I, 388-390II+6-10I³⁸,

42-ploid (aneuploid)/10-ploid (aneuploid): c.637II+6-8I³⁷,

632-640II+6-8I³⁸

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.):