Species Datasheet

Datasheet No. P-006.002.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Ophioglossum costatum* R.Br.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Ophioglossumfibrosum*Schumach.
*Ophioglossumpedunculosum*Desv.
*Ophioglossumwightii*Grev. & Hook.

3.Systematic Position:
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- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Ophioglossum* L.
- Species: *Ophioglossum costatum* R.Br.
- Subspecies:
- Variety:

4.Distribution:

Global:: India, Africa, Comores Archipelago, Malagasy, Sri Lanka, Sumatra to East Australia, New Zealand, Sumatra and Guinea coast

India: Kerala (Kannur, Kozhikkode, Wayanad, Malappuram, Palakkad, Thrissur, Idukki districts), Western Ghats, Palghat, Belgaum, Maharashtra (Pune, Khandala Hills, Lonawala, Mahabaleshwar) Madhya Pradesh, (Gwalior, Sultangarh)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Terrestrial, in grasslands of laterite hills, paddy fields, forest margins, etc

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=30(Palaeobasic)[9, 14, 15, 19, 20, 27, 28],

120 (Neobasic)[9, 14, 15, 19, 20, 27, 28]

13. Zygotic chromosome number(s):2n=c.200[21]

14. Gametic chromosome number(s):n=c.190[21],

120 [9, 14, 15, 19, 20, 27, 28],

124[9],

166-182[9],

100[14, 15],

115[14, 15],

116[14, 15],

240 [14, 15]

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

Image file

16.Ploidy level: Hexaploid (aneuploid)/Diploid (aneuploid)[21],

12-ploid(aneuploid)/tetraploid (aneuploid)[21],

Octoploid/Diploid [9, 14, 15, 19, 20, 27, 28] ,

Octoploid(aneuploid)/Diploid (aneuploid) [9],

Decaploid (aneuploid)/Triploid (aneuploid)[9],

Hexaploid (aneuploid)[14, 15],

Octoploid (aneuploid)[14, 15],

16-ploid/Tetraploid[14, 15]

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/Diploid:120II[9, 14, 15, 19, 20, 27, 28],

Octoploid (aneuploid/Diploid (aneuploidy): 124II[9] ,

Hexaploid (aneuploid): 100II[14, 15]

Octoploid (aneuploid): 110II, 115II, 116II [14, 15]

16-ploid/Tetraploid240II[14, 15]

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;Translocationsetc.):