

# Species Datasheet

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Datasheet No. P-006.002.011  
- (family.genus.species)

DBT- Network Programme

## 1. Taxon:

**Species:** *Ophioglossum vulgatum* L.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

[\*Ophioglossum dudadae\* Mickel](#)

[\*Ophioglossum microstichum\* Ach.](#)

[\*Ophioglossum mironovii\* Sumn.](#)

[\*Ophioglossum pycnostichum\* \(Fernald\) Á. Löve & D. Löve](#)

[\*Ophioglossum vulgatum\* var. \*pycnostichum\* Fernald](#)

[\*Ophioglossum vulgatum\* var. \*valdivianum\* Licht.](#)

## 3. Systematic Position:

Christenhusz 2011

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

## 4. Distribution:

**Global:** Cosmopolitan, Europe, including Britain, from Iceland south and east to N. Africa, north and west Asia.

**India:** Punjab (Amritsar), Mussoorie, Darjeeling, Kerala (Munnar)

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:**spring-early summer. Shaded secondary woods, rich wooded slopes, forested bottomlands, and floodplain woods, south of Wisconsin glaciation; 0-800m

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=30$  (palaeobasic)<sup>14, 39, 45</sup>, 120 (Neobasic)<sup>14, 39, 45</sup>

**13. Zygotic chromosome number(s):** $2n=240$ <sup>39</sup> ,

c.300<sup>32</sup>,

480<sup>17, 18</sup> ,

c.1260<sup>18</sup> ,

c.1320<sup>47</sup>

**14. Gametic chromosome number(s):** $n=$

c.150-160<sup>32</sup>,

120<sup>14, 39, 45</sup> ,

122<sup>45</sup>,

c.230<sup>35, 36</sup> ,

240<sup>31</sup> ,

250-260<sup>23</sup>,

c.270<sup>3</sup> ,

c.243<sup>22</sup>,

480<sup>43</sup>,

340-346<sup>25, 43</sup> ,

385-390<sup>25, 43</sup> ,

c.400<sup>25, 43</sup> ,

410-420<sup>25, 43</sup> ,

410<sup>25, 43</sup>,

466-475<sup>25, 43</sup> ,

480<sup>25, 43</sup> ,

515-520<sup>25, 43</sup> ,

c.528<sup>35, 36</sup> ,

c.570<sup>28</sup>

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

Image file

**16.Ploidy level:**Octoploid/Diploid<sup>15, 17, 18, 39, 45</sup> ,

Octoploid/Diploid (aneuploid)<sup>45</sup> ,

16-ploid (aneuploid)/Tetraploid (aneuploid)<sup>3, 22, 23</sup> ,

42-ploid/10-ploid (aneuploid)<sup>18</sup> ,

44-ploid/11-ploid<sup>47</sup>

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<sup>15, 39, 45</sup>

Octoploid/Diploid (aneuploid) 122II<sup>45</sup>

16-ploid (aneuploid)/Tetraploid (aneuploid) 250II-260II<sup>23</sup>, c.270II<sup>3</sup>, c.243II<sup>22</sup>

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.):**