Species Datasheet

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Datasheet No. P-045.010.022
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Dryopteris filix-mas*(L.) Schott

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Aspidiumdepastum*Schkuhr
*Aspidiumerosum*Schkuhr
Aspidiumexpansum D. Dietr.
Aspidiumfilix-mas (L.) Sw.
Aspidiumfilix-mas var. *blackwellianum* Ten.
Aspidiumfilix-mas var. *heleopteris* (Borkh.) Christ
*Aspidiummildeanum*Göpp.
Aspidiumnemorale (Salisb.) Gray
*Aspidiumopizii*Wierzb.
Aspidiumumbilicatum (Poir.) Desv.
*Aspidiumveselskii*Hazsl. ex Domin
Dryopteris × *bohemica*Domin
Dryopterisfilix-mas f. *filix-mas*
Dryopterispatagonica Diem
Lastreafilix-mas (L.) C. Presl
Nephrodiumcrenatum Stokes
Nephrodiumfilix-mas (L.) Rich.
Polypodiumfilix-mas L.
*Polypodiumheleopteris*Borkh.
*Polypodiumnemorale*Salisb.
*Polypodiumumbilicatum*Poir.
Polystichumfilix-mas (L.) Roth
*Polystichumpolysorum*Tod.

3.Systematic Position:
Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Dryopteris* Adans.
- Species: *Dryopteris filix-mas* (L.) Schott
- Subspecies:
- Variety:

4.Distribution:

Global:common fern of the temperate Northern Hemisphere, native to much of Europe, Asia, and North America

India: Eastern Himalaya, Peninsular India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:favours damp shaded areas in the understory of woodlands, but also shady places on hedge-banks, rocks, and screes

8.Life Form:

9.EconomicImportance:root was used, until recent times, as an anthelmintic to expel tapeworms,

ornamental

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (17.40 pg)[99]	Feulgenmicrodensitometry[99]

12.Basic chromosome number(s):x=41[46, 75]

13. Zygotic chromosome number(s):2n=164[2, 29, 30, 33, 45, 50,52, 72, 76, 77, 80, 86, 87, 88,95] ,

c.164 [19]

14. Gametic chromosome number(s):n=41[46, 75] ,

82[13, 15, 31, 63,72, 76, 77, 96]

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

Image file

16.Ploidylevel: Diploid (sexual) [46, 75] ,

Tetraploid (sexual) [2, 13, 15, 19, 29, 30, 31, 33, 45, 50, 52, 63, 72, 76, 77, 80, 86, 88, 96]

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: 41II[46, 75] ,

Tetraploid: 82II[13, 15, 31, 63, 72, 96]

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.):