

Species Datasheet

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Datasheet No. P-041.002.013
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Athyrium filix-femina* (L.) Roth

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aspidium filix-femina* \(L.\) Sw.](#)
[*Asplenium dombeyi* \(Desv.\) Mett.](#)
[*Asplenium filix-femina* \(L.\) Bernh.](#)
[*Asplenium michauxii* Spreng.](#)
[*Athyrium angustum* \(Willd.\) C. Presl](#)
[*Athyrium barnebyanum* Mickel & Beitel](#)
[*Athyrium contingens* Ching & S.K. Wu](#)
[*Athyrium dombeyi* Desv.](#)
[*Athyrium ensiferum* Ching & H.S. Kung](#)
[*Athyrium excelsium* Ching](#)
[*Athyrium filix-femina* var. *dombeyi* \(Desv.\) Hieron.](#)
[*Athyrium filix-femina* var. *filix-femina*](#)
[*Athyrium filix-femina* subsp. *filix-femina*](#)
[*Athyrium filix-femina* var. *michauxii* \(Spreng.\) Farw.](#)
[*Athyrium galeottii* Fée](#)
[*Athyrium lancipinnulum* Ching](#)
[*Athyrium michauxii* \(Spreng.\) Fée](#)
[*Athyrium nudifrons* Ching](#)
[*Athyrium oblongum* Ching](#)
[*Athyrium paramicola* L.D. Gómez](#)
[*Athyrium paucifrons* C. Chr.](#)
[*Athyrium pumilio* Christ](#)
[*Athyrium supranigrescens* Ching](#)
[*Athyrium tarulakaense* Ching](#)
[*Athyrium tsaii* Ching](#)
[*Lastrea filix-femina* \(L.\) Colomb](#)

Nephrodium filix-femina (L.) Michx.

Polypodium filix-femina L.

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Athyriaceae Alston
- Subfamily:
- Genus: *Athyrium* Roth
- Species: *Athyrium filix-femina* (L.) Roth
- Subspecies:
- Variety:

4. Distribution:

Global: Throughout the N. Temperate zone, including Britain, to the mountains of India, tropical S. America

India: Himalayas from Kashmir to Sikkim and Bhutan, 3000-3600m

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Moist sheltered woods, hedgebanks and ravines, usually on acidic soils but also found in drier and more open habitats, 3000-3600m.

8. Life Form:

9. Economic Importance: Moist sheltered woods, hedgebanks and ravines, usually on acidic soils but also found in drier and more open habitats

10. Probable Progenitor of:

11.DNA

C-value

2C (5.90 pg) ²⁹

2C (13.50 pg) ²

2C (14.40 pg) ³

Methodology

FeulgenMicrodensitometry ²⁹

Flowcytometry²

Flowcytometry ³

12.Basic chromosome number(s): $x=40$ ^{13, 24, 25, 26, 27, 30, 33, 34, 35, 36, 41, 42, 43, 44, 46, 52, 54, 55, 56, 60, 63, 65, 66, 70}

13. Zygotic chromosome number(s): $2n=80$ ^{13, 24, 25, 26, 33, 34, 35, 36, 41, 42, 44, 52, 60, 63, 65, 66, 70}

14. Gametic chromosome number(s): $n=40$ ^{13, 27, 30, 43, 44, 46, 54, 55, 56, 57, 60, 63, 65, 66} ,
 45 ³¹ ,
 80 ⁴⁰

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

Image file

16.Ploidy level:Diploid (sexual)^{13, 24, 25, 26, 27, 30, 33, 34, 35, 36, 41, 42, 43, 44, 46, 52, 54, 55, 56, 60, 63, 65, 66, 70} ,
Tetraploid (sexual) ⁴⁰

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 meiosisDiploid: $40\text{II}^{13, 43, 44, 60, 65, 66}$,

Tetraploid: 80II^{40}

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.):