

Species Datasheet

Datasheet No. P-042.018.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Phegopteris connectilis* (Michx.) Watt

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Dryopteris phegopteris (L.) C. Chr.

Lastreaphegopteris Bory ex Newnham

Polypodium connectile Michx.

Polypodium phegopteris L.

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Thelypteridaceae Pic. Serm.
- Subfamily:
- Genus: *Phegopteris*
- Species: *Phegopteris connectilis* (Michx.) Watt
- Subspecies:
- Variety:

4. Distribution:

Global: native to forests of the Northern Hemisphere

India:

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: this species is often [epipetric](#) as well as terrestrial. moist, strongly to moderately acid soil, or on rocks in shaded rock crevices; 0--2200 m;

8. Life Form: Northwest Himalayas (Kashmir-Gulmarg, Pehalgam, Khillanmarg, Uttarakhand-- Garhwal

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
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2C (14.40 pg) ²	Flow cytometry ²
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12. Basic chromosome number(s): $x=30^{4, 5, 6}$

13. Zygotic chromosome number(s): $n=90^{4, 6}$

14. Gametic chromosome number(s): $n=90^{4, 5, 6}$

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

Image file

16.Ploidy level:

Triploid (apogamous) ^{4, 6}

Hexaploid (sexual) ⁵

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 Triploid (apogamous): 8-celled sporangium $90\text{II}^{4, 6}$

Hexaploid: 90II^5

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.): Apogamy^{4, 6}