

Genus Datasheet

Datasheet No. P-045.010

(Family.Genus)

DBT- Network Programme

1. Genus: *Dryopteris* Adans.

2. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Dryopteris* Adans.

3. Species:

Global: Accepted (302), Unassessed (1156)

India:

4. Taxonomic riddles: 41, 61, 73, 74, 98

5. Distribution:

Global:

India:

6. Habit and Habitat:

7. Economic Importance:

8. DNA content range:

Methodology

2C (33.85 pg)³ Flow cytometry³

2C (17.40 pg)⁹⁹ Feulgen microdensitometry⁹⁹

9. Basic chromosome number(s): x=41^{4,5}, 6, 8, 10, 11, 13, 16, 18, 19, 21, 22, 24, 25, 26, 34, 37, 38, 39, 43, 46, 48, 49, 53, 54, 55, 56, 57, 58, 59, 61, 62, 65, 66, 67, 69, 70, 71, 75, 79, 82, 83, 84, 85, 89, 90, 97, 100,

35^{43, 44}

10. Zygotic chromosome number(s): $2n=c.82^{34}$, 82^{4, 5, 6, 10, 13, 16, 19, 21, 24, 38, 39, 43, 50, 53, 59, 60, 65, 66, 69, 70, 71, 79, 89, 100},
 123^{4, 5, 16, 19, 27, 28, 38, 43, 54, 55, 56, 62, 64, 69, 70},
 c.123³⁴,
 164^{2, 5, 12, 13, 14, 16, 19, 20, 29, 30, 33, 42, 45, 46, 50, 51, 52, 70, 71, 72, 76, 77, 78, 80, 86, 87, 88, 89, 91, 92, 9}
 c.164¹⁹

11. Gametic chromosome number(s): $n=41^{4, 5, 6, 8, 11, 16, 18, 19, 21, 24, 25, 26, 37, 38, 39, 43, 46, 48, 49}$
 65, 66, 67, 69, 70, 71, 75, 79, 82, 83, 84, 85, 90,
 80⁴⁷,
 c.82⁸¹,
 82^{1, 4, 5, 9, 10, 13, 15, 16, 17, 18, 19, 20, 22, 25, 31, 35, 38, 40, 43, 46, 48, 54, 55, 56, 58, 63, 68, 70, 72, 76, 77, 78,}
 100,
 123^{4, 5, 7, 16, 19, 23, 25, 27, 28, 38, 43, 48, 54, 55, 56, 58, 62, 64, 69, 70, 82, 97},
 35^{43, 44}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/

Neocentric chromosomes):

13. Ploidy level Diploid (sexual) ^{4, 5, 6, 8, 11, 13, 16, 18, 19, 21, 23, 24, 25, 26, 34, 37, 38, 39, 43, 44, 46, 48, 4}
 58, 59, 61, 62, 65, 66, 67, 69, 70, 71, 75, 79, 82, 83, 84, 85, 89, 90,

Diploid (apogamous) ^{10, 19, 38, 43, 54, 55, 56, 100},

Trinuclear 23. 34. 58. 82

Tetraploid (sexual)^{1, 2, 4, 5, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 29, 30, 31, 33, 35, 38, 39, 40, 50, 51, 52, 56, 57, 58, 63, 68, 71, 70, 72, 76, 77, 80, 82, 86, 87, 88, 89, 91, 92, 94, 96, 97,}

Hexaploid (sexual)^{23, 25, 48, 58, 82}

14. Nature of polyploidy (auto, segmental, allo, autoallo): Autotriploid AAA^{43, 56}

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: ⁷¹

Meiosis: ^{1, 4, 5, 6, 7, 8, 9, 10, 11, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 31, 35, 40, 43, 44, 46, 48, 49, 54, 55, 56, 57, 58, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 75, 79, 82, 83, 88, 97, 100}

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: ^{41, 43, 56, 61, 73, 74, 98}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: Apogamy^{4, 5, 6, 7, 16, 19, 27, 28, 38, 43, 54, 55, 56, 62, 64, 69, 70, 97}