

Genus Datasheet

Datasheet No. P-030.012
(Family.Genus)

DBT- Network Programme

1. Genus: *Pteris* L.

2. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Pteridoideae C. Chr. Ex Crabbe, Jermy & Mickel
- Genus: *Pteris* L.

3. Species:

Global: Accepted (187), unassessed (592)

India:..

4. Taxonomic riddles:^{6, 65}

5. Distribution:

Global:

India:

6. Habit and Habitat:

7. Economic Importance:

8. DNA content range:

Methodology

9. Basic chromosome number(s): $x=29$ ^{1,4, 7, 8, 11, 12,15, 16, 19, 21, 22, 27, 28, 29, 30, 31, 32, 33, 34,35, 37, 38, 39, 40, 41, 42, 43, 46, 47, 49, 51, 52, 54, 55, 56, 61,62, 63, 64, 66, 67, 68, 69, 70, 71, 73, 74, 75, 76, 77, 78, 79, 80}

10. Zygotic chromosome number(s): $2n=58$ ^{1, 7, 8, 11, 12, 14, 16, 19, 21, 22, 28, 29, 30, 31, 32, 33, 34, 39}
^{47, 49, 51, 52, 55, 56, 61, 64, 68, 69, 70, 71, 73, 74, 76, 77, 78, 79}

^{66, 78}⁶⁶

⁸⁷^{3, 7, 9, 10, 11, 12, 13, 15, 25, 26, 28, 37, 49, 51, 52, 56, 57, 61, 63, 68, 73, 75, 76, 77}

c. ¹¹⁶²⁰

¹¹⁶^{2, 7, 23, 30, 31, 32, 39, 40, 48, 50, 58, 61, 68, 69, 72, 79, 81}

¹⁴⁵^{25, 26}

¹⁷⁴^{1, 5}

²³²⁴²

11. Gametic chromosome number(s): $n=29$ ^{1, 13, 14, 15, 27, 28, 29, 30, 31, 32, 33, 35, 37, 40, 43, 51, 52,}
^{67, 68, 69, 70, 71, 73, 75, 76, 78, 79},

⁴⁰⁶²,

⁵⁸^{1, 4, 11, 12, 14, 15, 16, 17, 18, 19, 26, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 40, 42, 43, 44, 45, 46, 48, 51, 52, 53,}
^{64, 67, 68, 69, 70, 71, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87},

^{55, 57}⁶⁶,

⁸⁷^{1, 3, 9, 10, 11, 12, 13, 15, 24, 28, 37, 51, 52, 56, 57, 61, 63, 68, 69, 73, 75, 76, 77},

~ 174 59. 60

Neocentric chromosomes):

13. Ploidy level:Diploid (sexual)^{1,7, 13,15,21, 22, 27, 28, 29, 30, 31, 32, 33,34, 35, 37, 40, 41, 43, 47, 49, 51, 64,66, 67,68, 69, 70, 71,73, 75, 76, 78, 79},

Diploid (apogamous) ^{1, 14, 11, 12, 16,19, 28, 29, 42, 43, 51, 52, 55, 56, 57, 68, 69, 70, 71, 73, 74,}

Diploid (aneuploid)⁶⁶,

Triploid^{7, 25, 26, 49},

Triploid (apogamous) ^{3, 9, 10, 11, 12, 13, 15, 28, 37, 51, 52,56, 57, 61, 63,68, 69, 73, 75, 76, 77},

Triploid (aneuploid)⁶⁶,

Tetraploid (sexual) ^{1, 2, 4, 7,11, 12, 15, 17, 18, 20, 23, 26, 28, 29,30, 31, 32, 33,35, 36, 37, 38, 39,40, 42, 43, 44, 52, 53, 58,61, 62, 64, 67, 68, 69, 72, 73, 75, 78, 80, 81, 82, 83, 84, 85, 86, 87},

Tetraploid (aneuploid)⁶⁶,

Pentaploid (sterile)^{25, 26},

Hexaploid (sexual) ^{1,5, 13, 24},

Octoploid (sexual)⁴²,

12-ploid (sexual)^{59, 60}

14. Nature of polyploidy (auto, segmental, allo, autoallo):AA₁B^{76, 77}

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

16. Karyograms:

Meiosis:^{1, 3, 4, 9, 10, 11, 12,13, 14, 15, 16, 17, 18, 19, 24, 25, 26,28,29, 30, 31, 32, 33, 35,36, 3, 43, 44, 45, 46, 48, 51, 52,53, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64,66, 67, 68, 69, 70, 71, 72, 73,}

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:^{6, 65}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: