

Genus Datasheet

Datasheet No. P-030.007
(Family.Genus)

DBT- Network Programme

1. Genus: *Cheilanthes* Sw.

2. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Cheilantheoideae W.C. Shieh
- Genus: *Cheilanthes* Sw.

3. Species:

Global: Accepted (176), unassessed (199)

India:.

4. Taxonomic riddles:

5. Distribution:

Global:

India:

6. Habit and Habitat:

7.Economic Importance:

8. DNA content range:

Methodology

9. Basic chromosome number(s): x=29 1,7, 8, 9, 10, 15, 25, 27, 28, 29, 30 ,

30 2, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 28, 29, 31

10. Zygotic chromosome number(s): $2n=58^{3, 8}$,

c. 60^5 ,

$60^{5, 11, 21, 22, 31}$,

$90^{11, 26}$,

120^{11}

11. Gametic chromosome number(s): $n=29^{7, 8, 15, 25, 29, 30}$,

$30^{2, 4, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 31}$,

c. 30^{29} ,

$58^{1, 9, 10}$,

60^{11} ,

c. 87^{10}

**12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/
Neocentric chromosomes):**

13. Ploidy level: Diploid (sexual) $2, 4, 5, 7, 6, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27$

,

Triploid $^{10, 11, 26}$,

$^{1, 2, 10, 11}$

14. Nature of polyploidy (auto, segmental, allo, autoallo):

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

16. Karyograms:

Meiosis: 1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 2

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: