

**Genus Datasheet**  
**DBT- Network Programme**

**Datasheet No. P-032.002**  
(Family.Genus)

**1. Genus:***Cystopteris* Bernh.

**2. Systematic Position:**

**Christenhusz 2011**

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Cystopteridaceae Schmakov
- Subfamily:
- Genus: *Cystopteris* Bernh.

**3. Species:**

**Global:** 26 (accepted), 55 (unassessed)

**India:.**

**4. Taxonomic riddles:**<sup>32</sup>

**5. Distribution:**

**Global:**

**India:**

**6. Habit and Habitat:**

**7.Economic Importance:**

**8. DNA content range:**

2C: 16.57 pg<sup>27</sup>

**Methodology**

Flow cytometry<sup>27</sup> Obermeyer et al 2002

**9. Basic chromosome number(s):**  $x=42$ <sup>1, 4, 5, 7, 9, 10, 11, 15, 16, 17, 18, 20, 22, 23, 24, 25, 26, 28, 29, 30, 39, 41</sup>

**10. Zygotic chromosome number(s):**  $2n=168$ <sup>1, 4, 5, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42</sup>,  $252$ <sup>22, 40</sup>

**11. Gametic chromosome number(s):**  $n=42$ <sup>1, 4, 5, 38</sup>,  $84$ <sup>1, 4, 5, 7, 9, 10, 15, 16, 17, 18, 20, 22, 23, 25, 35, 36, 39, 41</sup>,  $126$ <sup>5, 11, 22, 23, 24, 25, 26</sup>,  $168$ <sup>5</sup>

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

**13. Ploidy level** Diploid (sexual)<sup>1, 4, 5, 38</sup>

Tetraploid (sexual)<sup>1, 4, 5, 7, 8, 9, 10, 14, 16, 17, 18, 20, 22, 23, 25, 28, 29, 31</sup>

Hexaploid (sexual)<sup>5, 22, 25</sup>

Octoploid (sexual)<sup>1, 2, 3, 4, 5</sup>

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

**16. Karyograms:**

**Meiosis:** 1, 2, 3, 4, 5, 7, 8, 9, 10, 16, 17, 18, 22, 23, 25, 28, 29, 30, 31, 38, 39

**17. Banding pattern(s):**

**18. Physical mapping of chromosomes:**

**GISH:**

**19. Phylogenetic relationship at Chromosomal; DNA level:**<sup>32</sup>

**20. Cytogenetic mechanism (s) underlying evolution:**

**21. Linkage map:**

**22. Any other information:**