Genus Datasheet

Datasheet No. P-045.006 **DBT- Network Programme**
(Family.Genus)

1. Genus:*Polystichum*Roth

2. Systematic Position:

Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Polystichum*Roth

3. Species:

Global: Accepted (276), Unassessed (391)

India:.

4. Taxonomic riddles: 28, 43, 55

5. Distribution:

Global:

India:

6. Habit and Habitat:

7.Economic Importance:

8. DNA content range: **Methodology**

9. Basic chromosome number(s):x=41[1,2, 3, 5,6, 9,10,15, 16, 18, 19, 21,22, 23, 26, 27, 30, 31, 32, 35, 37, 38,39, 42, 44, 45, 47, 50, 51, 54, 56, 57,58, 59, 60, 61, 62

10. Zygotic chromosome number(s):2n=82 [7, 16, 19,21, 23, 27,32, 33, 35, 37, 44, 50, 51, 56, 58, 59]

c.80[16],c.82[7,16, 19, 20, 21, 33, 36, 44], c.121[16], 123[8, 16, 17, 21, 40, 41, 49, 57],

164[8, 16, 34, 35, 37, 48, 49]

c.160-164[16]

11. Gametic chromosome number(s):n=41 [1, 2, 3, 5,6, 9, 15, 16, 18,22, 23, 26,30, 31, 32, 35, 37, 38,39, 4
51, 54, 57, 58, 59, 60, 61, 62]

c.82[56], 82 [4, 8, 10,11, 12, 13, 14, 15, 18, 22, 23, 29, 30, 35, 38,39, 45, 52, 53, 57, 58]

c.121[16], 123[8, 17, 40, 41, 57]

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

13. Ploidy level: Diploid (sexual)[1, 2, 3, 5,6, 7, 9, 15, 16, 18, 19,20, 21,22, 23, 26, 27, 30, 31, 32, 33, 35, 36, 45, 46, 47, 50, 51, 54, 56, 57,58, 59, 60, 61, 62]

Triploid (apogamous)[8, 16, 17, 40, 41, 57]

Tetraploid (sexual) [4, 8, 10, 11, 12, 13, 14, 15, 16,18, 22, 23, 29, 30, 34, 35,37, 38, 39, 45, 48, 49, 52, 53, 56, 57]

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

16. Karyograms:

Meiosis:1, 2, 3, 4, 5,6, 8, 9,10,11, 12, 13, 14, 15, 16, 17,18, 22, 23, 26, 30, 31, 32, 35, 36, 37, 38

44, 45, 46, 47, 50, 51, 52, 53, 54, 56,57, 58, 59, 60, 61, 62

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19.Phylogenetic relationship atChromosomal; DNAlevel:28, 43, 55

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: