Conus Notoshoot DBT- Network Programme

Datasheet No. P-041.002

(Family.Genus)

1. Genus: Athyrium Roth

2. Systematic Position:

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Athyriaceae Alston
- Subfamily:
- Genus: Athyrium Roth

3. Species:

Global: 216 (accepted), 420 (unassessed)

India:

4. Taxonomic riddles:

5. Distribution:

Global:

India:

6. Habit and Habitat:

7.Economic Importance:

8. DNA content range:

Methodology

2C (5.90 pg)²⁹FeulgenMicrodensitometry²⁹ 2C (13.50-14.40pg)^{2, 3}Flowcytometry^{2, 3}

9. Basic chromosome number(s):x=36⁵⁸,

40^{1,5,7, 8, 9, 10,11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 30, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 4 49, 50, 51, 52, 53, 54, 55, 56, 60, 61, 63, 64, 65, 66, 70, 71}

414, 6, 13, 14, 47, 59, 61, 67

10. Zygotic chromosome number(s):2n=72 ⁵⁸,

c.80³⁶,

8013, 24, 25, 26, 30, 33, 34, 35, 36, 41, 42, 44, 47, 50, 52, 53, 60, 63, 65, 66, 70

8247,67

 160^{28} ,

123^{13, 14},

c.160⁴⁵,

164^{6,61},

11. Gametic chromosome number(s):n=36⁵⁸,

40⁷, 8, 9, 10,11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 27, 30, 36, 37, 38, 39, 43, 44, 46, 47, 48, 49, 50, 51, 53, 54, 564, 65, 66, 71

41⁶⁷,

45³¹,

801, 7, 13, 15, 19, 20, 21, 23, 28, 32, 38, 40, 47, 48, 49, 50, 61, 68, 69

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

13. Ploidy level:Diploid (sexual) 4, 5, 7, 8, 9, 10,11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 30, 38, 39, 41, 42, 43, 44, 46, 47, 48, 49, 50,51, 52, 53, 54, 55,56, 58, 59, 60, 63, 64, 65, 66, 67, 70, 71

Diploid (hybrid, sterile) ⁴⁷, Triploid (apogamous)^{13, 14}, Tetraploid (sexual)^{1, 6, 7, 13, 15, 19, 20, 21, 23, 28, 32, 38, 40, 45, 47, 48, 49, 50, 61, 68, 69, Hexaploid (sexual)^{6, 28, 48, 49, 61}}

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

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

16. Karyograms:

Meiosis: 1, 4, 5, 6, 7, 8,9, 10,11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 28, 38, 37, 38, 40, 49, 50, 51, 53, 58, 60, 61, 64, 65, 66, 67, 68, 69, 71

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: