Species Datasheet

Datasheet No. P-016.001.004
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Azolla pinnata* R.Br.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position:
Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Salviniales Bartl. in Mart
- Family: Salviniaceae Martinov
- Subfamily:
- Genus: *Azolla* Lam.
- Species: *Azolla pinnata* R.Br.
- Subspecies:

4.Distribution:

Global: Africa, Asia, China, Japan, India, Australia, Phillipines

India:

5.Indigenous/Exotic/Endemic;Cultivated/Wild:

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:aquatic fern, its frond floating upon the surface of the water. It grows in quiet and slow-moving water bodies, because swift currents and waves break up the plant

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=22 [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]

13. Zygotic chromosome number(s):2n=44[3, 4, 7, 9, 10, 11] , 66[4,7, 10, 11, 12] , 88[10, 11]

14. Gametic chromosome number(s):n=22[2, 4, 9] , 44[5, 6]

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

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16.Ploidy level: Diploid (sexual) [2, 3,4, 7, 9, 10, 11] ,

Triploid (sterile)[4, 7, 10, 11, 12] ,

Tetraploid (sexual)[5, 6, 10, 11]

Image file

17.Agametoploidy:

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

19.Genomic formula:

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

21.Somatic chromosomes:[4]

Karyotype Ratio of longest to shortest 2.0[4]

Chromosome size Very small[4]

NOR chromosome(s)

Degree of asymmetry Asymmetrical[4]

Image file

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:

Image file

24.Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26.Chromosome associations:

Female meiosis

Male meiosis Diploid:22II [2, 4, 9]

Triploid: 6I+12.43II+11.71III [4] , 44II [6]

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):