

Species Datasheet

Datasheet No. P-016.002.004

(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Salvinia natans* (L.) All.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Marsileanatans L.

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Salviniales Bartl. in Mart
- Family: Salviniaceae Martinov
- Subfamily:
- Genus: *Salvinia* Seg.
- Species: *Salvinia natans* (L.) All.
- Subspecies:

4.Distribution:

Global:It is found throughout the world where there is plentiful standing fresh water, sunlight, and humid air, but is especially common in [Africa](#), [Asia](#), [central Europe](#), and [South America](#)

India: Assam, Jammu-Kashmir, Manipur, Indo-Nepal Border

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:The species is a free-floating fern, growing in large populations at the surface of still waters or in weak currents: ditches, canals, ponds, oxbows. It is often associated with *Lemnaceae* and other floating plants.

8.Life Form:

9.Economic Importance:The species is used as ornamental plant in basins

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=9^{4, 5, 6}$

13. Zygotic chromosome number(s): $2n=18^{4, 5, 6}$,
 36^{12}

14. Gametic chromosome number(s): $n=9^{4, 5, 6}$,
 18^{12}

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

Image file

16.Ploidylevel:Diploid (sexual) $^{4, 5, 6}$,
Tetraploid (sexual) 12

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:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

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: $9\text{II}^4, 5, 6$,

Tetraploid: 18II^{12}

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; Translocation etc.):