Species Datasheet

Datasheet No. P-016.002.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Salvinia auriculata* Aubl.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Salviniahispida*Kunth
*Salviniarotundifolia*Willd.

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 auriculata* Aubl.
- Subspecies:

4.Distribution:

Global: Native to the Americas from Mexico south to Argentina and Chile

India:

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Aquatic,invasive species

8.Life Form:

9.EconomicImportance: Cultivated as an ornamental plant, bioindicator

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=9[1, 2, 7, 8]

13. Zygotic chromosome number(s):2n=45[1, 2, 7, 8] ,

54[11]

14. Gametic chromosome number(s):n=

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

Image file

16.Ploidylevel: Pentaploid (sterile) [1, 2, 7, 8] ,

Hexaploid (sexual)[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: [7, 8]

KaryotypeMostly subterminal [7, 8]

Chromosome size Small[7, 8]

NOR chromosome(s)2 [7, 8]

Degree of asymmetry Asymmetrical[7, 8]

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 Pentaploid: 1V+1IV+2III+6II+18I, 3IV+3III+4II+16I,2V+1IV+2III+6II+13I,

1V+1IV+4III+4II+16I, 3V+1IV+3III+3II+11I, 1IV+3III+7II+18I [8]

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.):