

Species Datasheet

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Datasheet No. P-017.003.011
- **(family.genus.species)**

DBT- Network Programme

1.Taxon:

Species: *Marsilea quadrifolia* L.

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: Marsiliaceae Mirb. in Lamb & Mirb.
- Subfamily:
- Genus: *Marsilea* L.
- Species: *Marsilea quadrifolia* L.
- Subspecies:

4.Distribution:

Global:Caucasia, western Siberia, Afghanistan, sw India, China, Japan and North America.

India: North India, peninsular India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: lacustrine, riverine, shores of rivers or lakes.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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2C (8.15 pg) ²	Flow cytometry ²
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12.Basic chromosome number(s): $x=20$ ^{1, 9, 10, 12, 13, 16, 17, 18, 19}

13. Zygotic chromosome number(s): $2n=40$ ^{1, 9, 10, 16, 17}

14. Gametic chromosome number(s): $n=20$ ^{12, 13, 16, 17, 18, 19}

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

Image file

16.Ploidylevel:Diploid (sexual)^{1, 9, 10, 12, 13, 16, 17, 18, 19}

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 20II^{12, 13, 16, 17, 18, 19}

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.):