

Species Datasheet

Datasheet No. A-032.009.003
(family.genus.species)

DBT- Networ

1.Taxon:

Species:*Vallisnerianatans*(Lour.) H.Hara

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:*Physkiumnatans* Lour., *Vallisneriaamericana* var. *biwaensis* (Miki) Lowden, *V.asiatica* Miki, *V.asiatica* var. *biwaensis* Miki, *V.asiatica* var. *higoensis*Miki, *V.biwaensis* (Miki) Ohwi, *V.gigantea* var. *higoensis* (Miki) Kitam., *V.higoensis* (Miki) Ohwi, *V. minor* Ito, *V.natans* var. *biwaensis* (Miki) H.Hara, *V.natans* var. *higoensis* (Miki) H.Hara, *V.physkium*Juss. exSpreng., *V. spiralis* f. *minor* (Ito) Makino, *V. spiralis* var. *subulispatha* Makino, *V.spiraloides*Roxb., *V.subulispatha* (Makino) Koidz.

3.Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: HydrocharitaceaeJuss.
- Genus: *Vallisneria*L.
- Species:*V. natans*(Lour.) H.Hara

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Microspermae
Ordo: Hydrocharideae
Genus: *Vallisneria*L.
Species:*V. natans*(Lour.) H.Hara

4.Distribution:

Global:Iraq, India to Russian Far East

India:Himalaya

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

6.Threat Status:

IUCN: Least Concern

BSI

7.Habit and Habitat:Herb. It grows in streams, rivers, ponds and lakes.

8.Life Form:Hydrophytes

9.Economic Importance:Used as a medicinal plant and also in aquariums.

10. Probable Progenitor of:

11.DNA

C-valueMethodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:

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:

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; Translocations etc):