

Genus Data Sheet

Datasheet No. A-032.009
(family,genus,species)

DBT- Network Programme

1. Genus: *Vallisneria* L.

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Hydrocharitaceae Juss.
- Genus: *Vallisneria* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Microspermae
Ordo: Hydrocharideae
Genus: *Vallisneria* L.

3. Species:

Global: 14

India: 4

4. Taxonomic riddles:

5. Distribution:

Global: Old World, North & Central America, Caribbean

India: Throughout India

6. Habit and Habitat: Aquatic herb. Grows in slow-flowing or lentic lowland water bodies such as canals, ditches, rivers and occasionally lakes.

7. Economic Importance: *Vallisneria* species are used in aquariums.

8. DNA content range:

Methodology

2C: 4C:

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=20^{1,2,6} 22^4 24^3 30^3 33^6 40^{1,2,3,5,6}$

11. Gametic chromosome number(s): $n=10^4$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes Neocentric chromosomes):

13. Ploidy level:Diploid²

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

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

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:GISH:

19.Phylogenetic relationship atChromosomal; DNAlevel:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: 2 (Two) species has been completed out of 3 (Three).