

Datasheet No. A-032.010
(Family.Genus)

DBT- Network Programme

1. Genus:*Najas*L.

2. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Apocarpae
- Ordo: NajadaceaeJuss.
- Genus:*Najas*L.

3. Species:

Global: 39

India:13

4. Taxonomic riddles:

5. Distribution:

Global: Cosmopolitan

India: Almost throughout India

6. Habit and Habitat:Aquatic herb; found in many types of freshwater and brackish aquatic habitat, including bodies of alkaline water

7.Economic Importance:Used as food and medicine

8. DNA content range:

2C

4C

Methodology

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=12^{1,2,3,4,5,6,7,9,10,11}$; $2n=14^{14}$; $2n=24^{1,4,6,8,9,12}$; $2n=36^{1,6,7}$; $2n=46^{10}$; $2n=48^{5,13}$; $2n=60^1$

11. Gametic chromosome number(s): $n=6^5$; $n=24^5$

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

13. Ploidy level:

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

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

16. Karyograms: Meiosis: ^{5,6}

17. Banding pattern(s):

18. Physical mapping of chromosomes: GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: DNA level⁶

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: Total number of species with reports = 6/13