

Genus Data Sheet

Datasheet No. A-032.007
(family,genus,species)

DBT- Network Programme

1. Genus: *Ottelia* Pers.

2. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Microspermae
Ordo: Hydrocharideae
Genus: *Ottelia* Pers.

3. Species:

Global: 19

India: 1

4. Taxonomic riddles:

5. Distribution:

Global: Tropical & South Africa to Russian Far East and Australia, Brazil to North East Argentina

India: Throughout India

6. Habit and Habitat: Herb. Species grows in still or slow-moving shallow water such as lakes, ponds and rice fields.

7. Economic Importance: *Ottelia alismoides* has medicinal properties and has been used against fever and piles. It is also a common aquarium plant.

8. DNA content range:

Methodology

2C: 4C:

9. Basic chromosome number(s): $x=11^{5,8}$

10. Zygotic chromosome number(s): $2n= 22^{4,6,8,10,11,12,13,14} 33^{8,10} 34^{12} 44^{1,4,5,9,11,12,13,14,15,16,17,18} 52^{19}$
 $56^{20} 60^{12,20} 64^{20} 66^{2,3,4,5,6,9,11,12,13,14,18,20} 72^{20,21} 68^{5,18} 88^{4,11,12} 110^{18} 132^{2,3,6,9}$

11. Gametic chromosome number(s): $n=22^{7,9,16} 33^9$

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

13. Ploidy level: Triploid⁸

14. Nature of polyploidy (auto, segmental, allo, autoallo): Allopolyploidy⁹

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

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes: GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution: Structure alternation of chromosome and

21. Linkage map:

22. Any other information: