

Genus Datasheet

CalU+SUK-Phase I

Datasheet No. A-028.027
(Family.Genus)

DBT- Network Programme

1. Genus: *Wolffia* Horkel ex Schleid.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocot
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Wolffia* Horkel ex Schleid.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Lemnaceae Gray
Genus: *Wolffia* Horkel ex Schleid.

3. Species:

Global: 11

India: 4

4. Taxonomic riddles:

5. Distribution:

Global: Cosmopolitan

India: Many parts of India

6. Habit and Habitat: Aquatic herb; grows in mats on the surface of calm, freshwater bodies, such as ponds, lakes, and marshes

7. Economic Importance: Used as potential high-protein human food source

8. DNA content range:

2C

4C

Methodology:

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=30^1$; $2n=40^1$; $2n=50^{1,2}$; $2n=60^1$; $2n=70^1$; $2n=80^1$

11. Gametic chromosome number(s): $n=35^4$

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

13. Ploidy level:

- 14. Nature of polyploidy (auto, segmental, allo, autoallo):**
- 15. Aberrant chromosomal number(s) (aneuploidy, aneusomy, polysomy):**
- 16. Karyograms:** **Meiosis:**
- 17. Banding pattern(s):**
- 18. Physical mapping of chromosomes:** **GISH:**
- 19. Phylogenetic relationship at Chromosomal; DNA level: DNA level⁵**
- 20. Cytogenetic mechanism(s) underlying evolution**
- 21. Linkage map:**
- 22. Any other information:** Total number of species with reports = 4/4