

# Genus Datasheet

CalU+SUK-Phase I

Datasheet No. A-028.026  
(Family.Genus)

DBT- Network Programme

1. Genus: *Spirodela* 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: *Spirodela* Schleid.

### Bentham and Hooker (1862)

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

## 3. Species:

Global: 4

India: 2

## 4. Taxonomic riddles:

## 5. Distribution:

Global: Cosmopolitan

India: Throughout India

6. **Habit and Habitat:** Aquatic herb; found in quiet inlets of lakes, ponds, backwaters of rivers, creeks with slow-moving currents, and marshes

7. **Economic Importance:** Used for bioremediation, removing toxic substances from aquatic environment as well as cleaning eutrophic waters, especially in wastewater treatment plants; also used as biofuel and animal feed

## 8. DNA content range:

2C

4C

## Methodology:

## 9. Basic chromosome number(s):

10. **Zygotic chromosome number(s):**  $2n=20^1$ ;  $2n=30^1$ ;  $2n=40^1$

## 11. Gametic chromosome number(s):

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:**

**20. Cytogenetic mechanism(s) underlying evolution**

**21. Linkage map:**

**22. Any other information:** Total number of species with reports = 1/2