

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.027.004
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species: *Wolffia microscopica* (Griff.) Kurz

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Grantia microscopica* Griff.

3. 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.
- Species: *W. microscopica* (Griff.) Kurz

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Lemnaceae Gray
Genus: *Wolffia* Horkel ex Schleid.
Species: *W. microscopica* (Griff.) Kurz

4. Distribution:

Global: India, Bangladesh

India: Gujarat

5. Indigenous/Exotic/ Endemic; Cultivated/Wild: Endemic

6. Threat Status:

IUCN:

BSI

7. Habit and Habitat: Aquatic herb; inhabits in lakes, ponds and ditches

8. Life Form: Hydrophyte

9. Economic Importance: Used for the production of biomass for energy production, animal feed or even for human consumption

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^1$; $2n=80^1$

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

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

Image file

16. Ploidy level:

Image file

17. Agametoploidy

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry:

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):