Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.027.001 **DBT- Network Programme**
(family.genus.species)

1. Taxon:

Species: *Wolffia arrhiza* (L.) Horkel ex Wimmer
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Bruniera vivipara* Franch., *Horkelia arrhiza* (L.) Druce, *H. arrhiza* Druce, *Lemna arrhiza* L., *L. microscopica* Schur, *Lenticula arrhiza* (L.) Lam., *Wolffia delilii* Miq., *W. michelii* Schleid.

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. arrhiza* (L.) Horkel ex Wimmer

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Lemnaceae Gray
Genus: *Wolffia* Horkel ex Schleid.
Species: *W. arrhiza* (L.) Horkel ex Wimmer

4. Distribution:

Global: Algeria; Angola; Austria; Belarus; Belgium; Benin; Bhutan; Bosnia and Herzegovina; Botswana; Bulgaria; Burundi; Congo; Croatia; Czech Republic; France; Germany; Ghana; Guinea-Bissau; Hungary; India; Iran, Islamic Republic of; Italy; Kenya; Lebanon; Liechtenstein; Luxembourg; Macedonia; Moldova; Montenegro; Morocco; Mozambique; Netherlands; Nigeria; Palestinian Territory; Philippines; Poland; Portugal; Russian Federation (Central European Russia, East European Russia); Rwanda; Senegal; Serbia; Slovenia; South Africa; Spain; Syrian Arab Republic; Taiwan; Uganda; Ukraine; United Kingdom

India: Jammu and Kashmir, Assam, Madhya Pradesh, Orissa, Punjab

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

6. Threat Status:

IUCN: Least concern

BSI

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

8. Life Form: Hydrophyte

9. Economic Importance: Leaves are nutritious and taste somewhat like a sweet cabbage

10. Probable Progenitor of:

11. DNA

C- value **Methodology**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=30[1]; 2n=40[1]; 2n=50[1,2]; 2n=60[1]; 2n=70[1]; 2n=80[1]

14. Gametic chromosome number(s):

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):