

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.027.002
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species: *Wolffia columbiana* H.Karst.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Bruniera columbiana* Nieuwl., *Grantia columbiana* (H.Karst.) MacMill.

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. columbiana* H.Karst.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Lemnaceae Gray
Genus: *Wolffia* Horkel ex Schleid.
Species: *W. columbiana* H.Karst.

4. Distribution:

Global: Alabama, Alberta, Argentina Northeast, Argentina Northwest, Arkansas, Bolivia, Brazil, British Columbia, California, Colombia, Colorado, Connecticut, Delaware, District of Columbia, Ecuador, El Salvador, Florida, Georgia, Guatemala, Honduras, Illinois, India, Iowa, Kansas, Kentucky, Louisiana, Maine, Manitoba, Maryland, Massachusetts, Mexico, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Netherlands Antilles, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Ontario, Oregon, Paraguay, Pennsylvania, Québec, Saskatchewan, South Carolina, South Dakota, Tennessee, Texas, Uruguay, Venezuela, Vermont, Virginia, West Virginia, Wisconsin, Belgium, Germany, Italy, Netherlands

India: Jammu and Kashmir

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Aquatic herb; floats at the water surface in mesotrophic to eutrophic lakes, rivers and backwaters

8. Life Form: Hydrophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=30^1$; $2n=40^1$; $2n=50^1$; $2n=70^1$

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):