

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.025.006
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species: *Lemna trisulca* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Hydrophace trisulca* (L.) Bubani, *Lemna bisulca* Veesenm., *L. cruciata* Roxb., *L. intermedia* Ruthe, *L. trisulca* var. *pygmaea* Henn., *L. trisulca* var. *sagittate* Makino, *Lenticula ramosa* Lam., *L. trisulca* (L.) Scop., *Staurogeton trisulcus* (L.) Schur

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocot
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Lemna* L.
- Species: *L. trisulca* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Lemnaceae Gray
Genus: *Lemna* L.
Species: *L. trisulca* L.

4. Distribution:

Global: Great Britain, Ireland, Bangladesh, China, Taiwan, India, Indonesia, Brunei, Japan, Malaysia, Myanmar, Papua New Guinea, Pakistan, Philippines, Europe, Oceania, America

India: Eastern and Northern India

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Submerged frond; grows in cool springs, streams, ponds, marshes, fens, and pools of water in woodlands

8. Life Form: Epiphyte

9. Economic Importance: It is used for bioremediation

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=20^{11}$; $2n=40^{11}$; $2n=80^{11}$

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):