

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.025.004
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species: *Lemna minor* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Hydrophace minor* (L.) Bubani, *Lemna conjugata* Willd. ex Schleid., *L. cyclostasa* Elliott ex Chev., *L. minima* Thuill. ex P.Beauv., *L. minor* var. *minima* Chev., *L. minor* var. *orbiculata* Austin ex A.Gray, *L. minor* var. *oxymitra* Hegelm., *L. monorhiza* Montandon, *L. obcordata* Bojer, *L. ovata* A.Br. ex C.Krauss, *L. palustris* Haenke ex Mert. & W.D.J.Koch, *L. rwandensis* De Sloover, *L. vulgaris* (Lam.) Lam., *Lenticula minima* (Chev.) Kurz, *L. minor* (L.) Scop., *L. palustris* Garsault, *L. vulgaris* Lam., *Lenticularia monorhiza* Friche-Joset & Montandon

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. minor* L.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Afghanistan; Åland Islands; Albania; Algeria; American Samoa; Andorra; Angola; Anguilla; Antarctica; Antigua and Barbuda; Argentina; Armenia; Aruba; Australia; Austria; Azerbaijan; Bahamas; Bahrain; Bangladesh; Barbados; Belarus; Belgium; Belize; Benin; Bermuda; Bhutan; Bolivia; Bosnia and Herzegovina; Botswana; Bouvet Island; Brazil; British Indian Ocean Territory; Brunei Darussalam; Bulgaria; Burkina Faso; Burundi; Cambodia; Cameroon; Canada; Cape Verde; Cayman Islands; Central African Republic; Chad; Chile; China; Christmas Island; Cocos Islands; Colombia; Comoros; Congo; Congo, The Democratic Republic of the; Cook Islands; Costa Rica; Côte d'Ivoire; Croatia; Cuba; Cyprus; Czech Republic; Denmark; Disputed Territory; Djibouti; Dominica; Dominican Republic; Ecuador; Egypt; El Salvador; Equatorial Guinea; Eritrea; Estonia; Ethiopia; Falkland Islands (Malvinas); Faroe Islands; Fiji; Finland; France; French Guiana; French Polynesia; Gambia; Georgia; Germany; Ghana; Gibraltar; Greece; Greenland; Grenada; Guadeloupe; Guam; Guatemala; Guernsey; Guinea; Guinea-Bissau; Guyana; Haiti; Heard Island and McDonald Islands; Holy See (Vatican City State); Honduras; Hong Kong; Hungary; Iceland; India;

Iran, Islamic Republic of; Iraq; Ireland; Isle of Man; Israel; Italy; Jamaica; Japan; Jersey; Jordan; Kazakhstan; Kenya; Kiribati; Korea, Democratic People's Republic of; Korea, Republic of; Kuwait; Kyrgyzstan; Lao People's Democratic Republic; Latvia; Lebanon; Lesotho; Liberia; Libyan Arab Jamahiriya; Liechtenstein; Lithuania; Luxembourg; Macao; Macedonia, the former Yugoslav Republic of; Madagascar; Malawi; Malaysia; Maldives; Mali; Malta; Marshall Islands; Martinique; Mauritania; Mauritius; Mayotte; Mexico; Micronesia, Federated States of; Moldova; Monaco; Mongolia; Montenegro; Montserrat; Morocco; Mozambique; Myanmar; Namibia; Nauru; Nepal; Netherlands; Netherlands Antilles; New Caledonia; New Zealand; Nicaragua; Niger; Nigeria; Niue; Norfolk Island; Northern Mariana Islands; Norway; Oman; Pakistan; Palau; Palestinian Territory, Occupied; Panama; Papua New Guinea; Paraguay; Peru; Philippines; Pitcairn; Poland; Portugal; Puerto Rico; Qatar; Réunion; Romania; Russian Federation; Rwanda; Saint Barthélemy; Saint Helena; Saint Kitts and Nevis; Saint Lucia; Saint Martin (French part); Saint Pierre and Miquelon; Saint Vincent and the Grenadines; Samoa; San Marino; Sao Tomé and Príncipe; Saudi Arabia; Senegal; Serbia; Seychelles; Sierra Leone; Singapore; Slovakia; Slovenia; Solomon Islands; Somalia; South Africa; South Georgia and the South Sandwich Islands; Spain; Sri Lanka; Sudan; Suriname; Svalbard and Jan Mayen; Swaziland; Sweden; Switzerland; Syrian Arab Republic; Tajikistan; Tanzania, United Republic of; Thailand; Timor-Leste; Togo; Tokelau; Tonga; Trinidad and Tobago; Tunisia; Turkey; Turkmenistan; Turks and Caicos Islands; Tuvalu; Uganda; Ukraine; United Arab Emirates; United Kingdom; United States; United States Minor Outlying Islands; Uruguay; Uzbekistan; Vanuatu; Venezuela; Viet Nam; Virgin Islands, British; Virgin Islands, U.S.; Wallis and Futuna; Western Sahara; Yemen; Zambia; Zimbabwe

India: Throughout India

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Floating herb; grows in paddy fields, ponds and still water bodies

8. Life Form: Hydrophyte

9. Economic Importance: Leaves are used in homeopathy and are excellent remedy for blocked nose and nasal inflammation

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=20^5$; $2n=30^{5,8}$; $2n=40^{5,9}$; $2n=42^5$; $2n=50^{5,10}$; $2n=80^5$

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^{3,7}

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