

Genus Datasheet

Datasheet No. A-030.007
(Family.Genus)

DBT- Network Programme

1. Genus: *Limnocharis* Bonpl.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Alismataceae Vent.
- Genus: *Limnocharis* Bonpl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Apocarpae
Ordo: Alismaceae
Genus: *Limnocharis* Bonpl.

3. Species:

Global: 2

India: 1

4. Taxonomic riddles: ¹⁴

5. Distribution:

Global: Andaman Island, Argentina, Bolivia, Borneo, Brazil, Cambodia, Caribbean Cuba, Caribbean Windward Island China, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, India, Jawa, Malaya, Malesia, Mexico, Myanmar, Nicaragua, Panamá, Paraguay, Peru, Sri Lanka, Sumatera, Thailand, Venezuela, Vietnam

India: Assam, Kerala

6. Habit and Habitat: Aquatic herb, Tropical Moist Forest

7. Economic Importance:

8. DNA content range:

Methodology:

1C (8.4pg) ¹

Feulgen microdensitometry¹

2C (16.7pg) ¹

3C (25.1pg) ¹

4C (33.5pg) ¹

9. Basic chromosome number(s): $x=5^2$

$$x=10^{6,16}$$

10. Zygotic chromosome number (s): $2n=20^{1,2,3,4,6,7,8,9,10,13,14,15}$

$$2n=26^{11}$$

$$2n=29^{11}$$

11. Gametic chromosome number (s): $n=10^{2,4,5,12}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/ N chromosomes):

13. Ploidy level: Diploid 1,13,14

Polyploid 2

14. Nature of polyploidy (auto, segmental, allo, autoallo): Amphidiploid 2

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

16. Karyograms: 2,6,13

Meiosis:

17. Banding pattern(s): C-banding 13 ; 4 C/CMA⁺/DAPI⁰ banding 14

18. Physical mapping of chromosomes: Four 45S rDNA sites 14 **GISH:**

19. Phylogenetic relationship at Chromosomal; DNA level: Chromosomal level 2,3,6,7,13 ; DN_t

22. Any other information:

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