Final Species Datasheet

JamU+CalU+SUK-Phase I

Datasheet No. A-284.001.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:*Aldrovanda vesiculosa* L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Anacampseros polyphylla* (Haw.) Sweet, *Ruelingia polyphylla* Haw., *Aldrovanda verticillata* Roxb., *A. vesiculosa* var. *australis* Darwin, *A. vesiculosa* var. *rubescens* A.T.Cross & Adamec, *Drosera aldrovanda* F.Muell.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Superasterids
- Order: CaryophyllalesJuss. ex Bercht. & J. Presl
- Family: Droseraceae Salisb.
- Genus:*Aldrovanda* L.
- Species:*A. vesiculosa* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetaleae
- Series: Calyciflorae
- Cohors: RosalesBercht. & J. Presl
- Ordo: Droseraceae Salisb.
- Genus:*Aldrovanda*L.
- Species:*A. vesiculosa* L.

4. Distribution:

Global: Bangladesh, Belarus, Botswana, Burundi, Cameroon, Central European Rus, Chad, Czechoslovakia, France, Germany, Ghana, Hungary, India, Inner Mongolia, Italy, Japan, Kazakhstan, Khabarovsk, Lesser Sunda Island., Madagascar, Manchuria, New South Wales, North Caucasus, Northern Territory, Poland, Primorye, Queensland, Romania, Rwanda, Sudan, Tanzania, Transcaucasus, Ukraine, Western Australia, Yugoslavia, Zambia

India: Manipur, West Bengal

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

6. Threat Status:

IUCN: Endangered

BSI

7. Habit and Habitat: Floating herb on water

8. Life Form: Hydrophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
2C (1.24±0.07 pg)[1]	Flow cytometry[1]

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):2n= 48[1,3]; 2n=38[2]

14. Gametic chromosome number(s):

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16. Ploidy level: Diploid[1]

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) 4NOR[3]

Degree of asymmetry

Image file

22. Banding pattern(s): Two CMA positive sites were located at the terminal region of two chromosomes at metaphase or were observed as satellites of two-sat-chromosomes at early stage of metaphase[3]

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization: All FISH signals at metaphase stage were located at the terminal region of four chromosomes[3]

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]

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