

Species Datasheet

Datasheet No. A-034.001.003
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Aponogeton crispus* Thunb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Aponogeton echinatus* Roxb., *Spathium crispum* (Thunb.) Voigt, *S. echinatum* (Roxb.) Voigt

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R.Br.
- Family: Aponogetonaceae Planch.
- Genus: *Aponogeton* L.f.
- Species: *A. crispus* Thunb.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Apocarpae
Ordo: Najadaceae Juss.
Tribus: Aponogetoneae Benth. & Hook. f.
Genus: *Aponogeton* L.f.
Species: *A. crispus* Thunb.

4. Distribution:

Global: Bangladesh, India, Sri Lanka.

India: Andhra Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu, West Bengal.

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Submerged, aquatic herb; grows in permanent fresh water lakes, ponds and pools.

8. Life Form: Tuberous geophyte

9. Economic Importance: Tubers are edible. Species cultivated in aquarium.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 32^{1,2,3,4}$

14. Gametic chromosome number(s): $n = 24^{5,6}$

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 Majority metacentric to submetacentric chromosomes³

Chromosome size very small to small³

NOR chromosome(s)

Degree of asymmetry: Symmetric³

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):