

Species Datasheet

Datasheet No. A-034.001.001
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Aponogeton appendiculatus* H.Bruggen

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

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. appendiculatus* H.Bruggen

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. appendiculatus* H.Bruggen

4. Distribution:

Global: India

India: Peninsular India: Goa, Kerala, Madras, Maharashtra

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

6. Threat Status:

IUCN: Data deficient

BSI:

7. Habit and Habitat: Perennial, submerged, aquatic herb; Grows in brackish water streams of 1–1.5 m depth in the vicinity of the sea.

8. Life Form: Tuberous geophyte

9. Economic Importance: Tubers are used as diet by farmers.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 30^{1,2,3}$

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 Majority metacentric 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):