

Species Datasheet

Datasheet No. A-377.025.002
(family.genus.species)

DBT- Network Program

1.Taxon:

Species:*Hygrophila balsamica*Raf.

Subspecies

Variety:

Hybrid

Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Hygrophila* R. Br.
- Species: *H. balsamica*Raf.

Bentham and Hooker(1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo:Acanthaceae Juss.
- Genus: *Hygrophila* R. Br.
- Species: *H. balsamica* Raf.

4.Distribution:

Global:India and Sri Lanka.

India:Karnataka,Kerala andTamil Nadu.

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

6.Threat Status:

IUCN:Least Concern

BSI:

7.Habit and Habitat:Herb. Found in shallow waters.

8.Life Form:Hydrophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=34^{1, 2}$, $2n=32^3$

14. Gametic chromosome number(s): $n=17^2$, $n=16^3$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytenechromosomes/ Neocentric Chromosomes etc):

Image file

16.Ploidy level:

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.A aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:

Karyotype –Majority metacentric and sub-metacentric chromosomes, there is association of satellites in five pairs of chromosomes and eight pairs of short chromosomes (1 μm to 3 μm) have sub-terminal centromere²

Chromosome size-1.8μm to 6.0μm²

NOR chromosome(s)

Degree of asymmetry:

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:GISH.

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-17II²

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information: