

Species Datasheet

Datasheet No. A-377.025.017
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:
Subspecies
Variety: *Hygrophilaringens* var. *ringens*
Cultivar
Hybrid
Image file

2. **Synonyms:** *Hygrophila angustifolia* R. Br., *H. lancea* (Thunb.) Miq., *H. megalantha* Merr., *H. quadrivalvis* (Buch.-Ham.) Nees, *Justicialancea* Thunb., *Ruellia quadrivalvis* Buch.-Ham., *R. ringens* L., *R. salicifolia* Vahl

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. ringens* (L.) R. Br. ex Spreng.
- Variety: *H. ringens* var. *ringens*

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. ringens* (L.) R. Br. ex Spreng.
- Variety: *H. ringens* var. *ringens*

4. Distribution:

Global: Bangladesh, Burma, China, India, Indonesia, Japan, Malaysia, Myanmar, Nepal, Pakistan, Philippines, and Sri Lanka.

India: Andaman & Nicobar Islands, Gujarat, Goa, Karnataka, Kerala, Maharashtra and Tamil Nadu.

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Herb. Found in moist areas.

8. **Life Form:** Chamaephytes.

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C-value Methodology

12. **Basic chromosome number(s):**

13. **Zygotic chromosome number(s):** $2n = 32^{8,9}, 2n = 44^{1,2}$

14. **Gametic chromosome number(s):** $n = 22^2$

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

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16. **Ploidy level:**

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype – 18 chromosomes with median centromere, 6 chromosomes with sub-median centromere and 8 chromosomes with sub-terminal centromere⁸.

Presence of satellites on three pairs of chromosomes²

Chromosome size– 1.8μ to $3.5\mu^2$, 1μ to $1.6\mu^8$

NOR chromosome(s)

Degree of asymmetry:

22. Banding pattern(s):

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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

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information: