

Species Datasheet

Datasheet No. A-403.005.001
(family.genus.species)

DBT-1

1.Taxon:

Species: *Adenostemma lavenia* (L.) Kuntze

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Adenostemma aquaticum* D. Don, *A. elatum* D. Don, *A. erectum* (Sw.) DC., *A. fastigiatum* (Blume) DC., *A. fastigiatum* var. *fastigiatum*, *A. fastigiatum* var. *macrophyllum* (Blume) Miq., *A. latifolium* D. Don, *A. lavenia* var. *aquaticum* (D. Don) Kuntze, *A. lavenia* f. *lavenia*, *A. lavenia* var. *lavenia*, *A. lavenia* var. *viscosum* (J.R. Forst. & G. Forst.) M.R. Almeida, *A. leiocarpum* DC., *A. macrophyllum* var. *repens* (Blume) DC., *A. rivale* Dalz., *A. rivale* Dalzell, *A. rugosum* DC., *A. viscosum* var. *elatum* (D. Don) C.B. Clarke, *A. viscosum* var. *fastigiatum* (Blume) Blume ex C.B. Clarke, *A. viscosum* var. *latifolium* (D. Don) C.B. Clarke, *A. viscosum* var. *lavenia* Hook.f., *A. viscosum* var. *microcephalum* (DC.) C.B. Clarke, *A. viscosum* var. *trisetum* Miq., *Ageratum aquaticum* Roxb., *Anisopappus scandelabrum* H. Lev., *Lavenia alba* Wallich, *L. aquatica* Spreng., *L. carnosawallich*, *L. dentata* Wallich, *L. divaricata* Ham. DC., *L. elata* Spreng., *L. erecta* Sw., *L. fastigiata* Blume, *L. latifolia* Spreng., *L. nudiflora* Hort. ex DC., *L. rugosa* Wight, *Myriactis scandelabrum* (H. Lev.) H. Lev.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Asterales Link
- Family: Asteraceae Bercht. & J. Presl
- Genus: *Adenostemma* J.R. Forst. & G. Forst.
- Species: *A. lavenia* (L.) Kuntze

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: Compositae Giseke
Genus: *Adenostemma* J.R. Forst. & G. Forst.
Species: *A. lavenia* (L.) Kuntze

4. Distribution:

Global: Australia, Burma, China, Ecuador, India, Japan, Laos, Malaysia, Nepal, North Korea, Philippines, Polynesia South Korea, Sri Lanka, Thailand, Tropical Africa, Vietnam

India: Throughout India

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb.

8. Life Form: Chamaephytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=10^1$

13. Zygotic chromosome number(s): $2n=20^{1-6}$

14. Gametic chromosome number(s): $n=10^{1,2,7}$

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:¹

Karyotype Majority metacentric chromosomes

Chromosome size

NOR chromosome(s)

Degree of asymmetrySymmetrical

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 meiosis10II¹

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;Translocationsetc.):