

Species Datasheet

Datasheet No. A-377.020.008
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Eranthemum pulchellum* Andrews

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Daedalacanthus nervosus* (Vahl) T.Anderson, *D. scaber* T.Anderson, *D. varians* (Vent.) Voss, *Eranthemum bicolor* Schrank, *E.edgeworthianum* Nees, *E. grandiflorum* Zipp. ex Span., *E. nervosum* (Vahl) R.Br. ex Roem. & Schult., *E.scabrum* Wall. ex T.Anderson, *E. varians* Billb., *Fittonia verschaaffeltii* var. *pearsei* G. Nicholson, *Justicia nervosa* Vahl, *Pseuderanthemum bicolor* (Schrank) Radlk. ex Lindau, *P. pulchellum* (Andrews) Merr., *Upudalia pulchella* (Andrews) Raf.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Eranthemum* L.
- Species: *E. pulchellum* Andrews

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Eranthemum* L.
- Species: *E.pulchellum* Andrews

4.Distribution:

Global: Bolivia, El Salvador, Honduras, India and Venezuela

India: Throughout.

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

6.Threat Status:

IUCN:

BSI

7.Habit and Habitat: Shrub. Grown in moist soil and sandy loam.

8.Life Form: Chamaephytes

9.Economic Importance: Ornamental Plant.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=42^4$

14. Gametic chromosome number(s): $n=21^5$

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

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 and sub-metacentric⁴

Chromosome size: 1.0µm-2.4µm⁴

NOR chromosome(s)

Degree of asymmetry-Symmetrical⁴

Image

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

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information:(Translocations; Inversion; Female meiosis; Male meiosis; Male sterility)