

Species Datasheet

Datasheet No. A-377.037.004
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species: *Thunbergia erecta* (Benth.) T.Anderson

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Meyenia erecta* Benth.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Thunbergia* Retz.
- Species: *T. erecta* (Benth.) T. Anderson

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Thunbergia* Retz.
- Species: *T. erecta* (Benth.) T. Anderson

4. Distribution:

Global: Pakistan, D.R.Congo (Zaire), Uganda, Tanzania, Senegal, Guinea, Sierra Leone, Liberia, Ghana, Ivory Coast, Nigeria, Cameroon, Chad, Guinea-Bissau, Gabon, Central African Republic, Rwanda, Madagascar (introduced), Burkina Faso (introduced), Taiwan (introduced), China (introduced), Sri Lanka (introduced), India (introduced), Vietnam (introduced), Jamaica (introduced), Puerto Rico (introduced), Venezuela (introduced), Costa Rica (introduced), Haiti (introduced), Panama (introduced), Nicaragua (introduced), Cuba (introduced), Belize (introduced), Dominican Republic (introduced), Virgin Isl. (introduced) (Tortola (introduced)), Fiji (introduced), New Caledonia (introduced), Surinam (introduced), American Samoa (introduced) (Manua Isl. (introduced)), Niue (introduced), Society Isl. (introduced) (Tahiti (introduced)), Moorea (introduced), Raiatea (introduced), Southern Marianas (introduced) (Guam (introduced)), Mauritius (introduced), Réunion (introduced), Rodrigues (introduced), Lesser Antilles (introduced) (Montserrat (introduced), Guadeloupe (introduced), Dominica (introduced), St. Lucia (introduced)), Mexico (introduced), Andamans (introduced), Myanmar [Burma] (introduced), Philippines (introduced), USA (introduced) (Florida (introduced)), Colombia (introduced) (Cundinamarca (introduced), Santander (introduced)), Honduras (introduced), Trinidad & Tobago (introduced)

India: Throughout

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Shrub. Found in plains.

8. Life Form: Phanerophytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- Value

Methodology

12. Basic chromosome number(s): $x=14$ ¹¹

13. Zygotic chromosome number(s): $2n=16$ ^{8, 9}, $2n=60$ ¹⁰, $2n=62$ ¹¹, $2n=64$ ¹²

14. Gametic chromosome number(s): $n=28$ ^{2, 4, 13}, $n=31$ ¹¹, $n=32$ ¹⁴

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

Image file

16. Ploidy level: Tetraploid¹¹

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-metacentric⁹

Chromosome size – 1.4μ to 2.5μ ⁹

NOR chromosome(s) -

Degree of asymmetry: Symmetrical⁹

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

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stain ability; Translocations etc):