

Species Datasheet

Datasheet No. A-377.032.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pseuderanthemum bicolor* (Schrunk) Radlk ex Lindau

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Eranthemum aspersum* Hook. Fil. *Eranthemum bicolor* (Sims) Schrank *Eranthemum blumei* Hassk. *Eranthemum diantherum* Bl. *Justicia bicolor* Sims *Siphonanthemum bicolor* (Sims) Kuntze. *Eranthemum pulchellum* Andrews

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Pseuderanthemum* Radlk
- Species: *P. bicolor* (Schrunk) Radlk ex Lindau

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Family: Acanthaceae Juss.
- Genus: *Pseuderanthemum* Radlk
- Species: *P. bicolor* (Schrunk) Radlk ex Lindau

4. Distribution:

Global: India, Malaysia, Philippines, Solomons, Fiji, Cuba, Puerto Rico and Trinidad & Tobago

India: Throughout

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb, moist deciduous to evergreen forest.

8. Life Form: Terrestrial

9. Economic Importance: Use in folk medicine

10. Probable Progenitor of:

11. DNA

C- Value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=42^3$

14. Gametic chromosome number(s): $n=11^1$, $n=22^2$, $n=21^{4,5}$

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:

Karyotype –Majority metacentric and sub-metacentric³

Chromosome size: 1.0μm-2.4μm³

NOR chromosome(s)

Degree of asymmetry-Symmetrical³

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):