

1. Taxon:

Species: *Justicia adhatoda* L.

Subspecies

Cultivar

Hybrid

Image file

2. Synonyms: *Adhatoda adhatoda* (L.) Huth, *A. arborea* Raf., *A. vasica* Nees, *A. zeylanica* Medik., *Dianthera latifolia* Salisb., *Ecbolium adhatoda* (L.) Kuntze, *E. latifolium* (Benth. & Hook.f.) Kuntze, *Gendarussa adhatoda* Steud.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales
- Family: Acanthaceae Juss.
- Genus: *Justicia* L.
- Species: *J. adhatoda* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Justicia* L.
- Species: *J. adhatoda* L.

4. Distribution:

Global: India

India: Malabar

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

6. Threat Status:

IUCN:

BSI

7. Habit and Habitat: Large shrub, commonly found as an escape along roadsides

8. Life Form: Phanerophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNAC-value Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=34^{1, 2}$, $2n=40^{1, 2, 4}$, $2n=50^{1, 2, 4}$, $2n=58^2$

14. Gametic chromosome number(s): $n=17^{2, 3, 4, 5}$

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Ring chromosomes/etc):

Image file

16. Ploidy level: Diploid^{2, 3, 5}

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
- Chromosome size
- NOR chromosome(s)
- Degree of asymmetry

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^{1, 2, 3, 4}

DNA level²⁷

29.Any other information:Pollen fertility at 85.36%²⁶