

Species Datasheet

Datasheet No. A-377.011.015
(family.genus.species)

DBT- Netw

1.Taxon:

Species:*Justiciagendarussa*Burm.f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:***Diantherasubserrata*Blanco, *Diclipterarheedei*Kostel.,*Ecboliumgendarussa* (Burm.f.) Kuntze, *E.subserratum*Kuntze, *Gendarussa vulgaris* Nees, [*Justicia gandarussa* L.f.](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: LamialesBromhead
- Family:Acanthaceae Juss.
- Genus: *Justicia*L.
- Species: *J.gendarussa*Burm.f.

Bentham and Hooker (1862)

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

4.Distribution:

Global:Malyan and China to the Philippines, India, tropical Africa

India:Throughout India

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

6.ThreatStatus:

IUCN:

BSI

7.Habit and Habitat:Shrub. Moist deciduous forests, also in the plains

8.Life Form:Chamaephytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNAC-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=28^6$, $2n=30^{7, 9, 12}$

14. Gametic chromosome number(s): $n=14^3$, $n=15^{7, 9, 12, 16}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Ringchromosomes/etc):Presence of B chromosomes¹⁵

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16.Ploidy level:Diploid^{6,7,9,12, 16}

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 – Presence of seven pairs of short chromosomes (1μ to $2.5m$) with satellites on three pairs. Eight pairs of short chromosomes with sub terminal centromere⁹

Chromosome size- 1μ to $2.5\mu m$ ⁹

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: $14II^3$, $15II^{7, 9, 12, 16}$

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information: