

# Species Datasheet

Datasheet No. A-377.011.030  
(family.genus.species)

DBT- Netw

## 1. Taxon:

Species: *Justicia procumbens* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Ecbolium procumbens* (L.) Kuntze, *Justicia hayatai* var. *decumbens* Yamam., *J. procumbens* var. *hirsuta* Yamam., *J. procumbens* var. *linearifolia* Yamam., *Rostellaria procumbens* (L.) Nees, *R. procumbens* (L.) Nees, *R. procumbens* var. *hirsuta* (Yamam.) S.S. Ying, *R. procumbens* var. *linearifolia* (Yamam.) S.S. Ying, *R. trichochila* Miq., *R. adenostachya* Nees, *R. japonica* Carrière, *R. adenostachya* Nees, *R. juncea* Nees, *R. media* Nees, *R. pogonanthera* F. Muell., *R. sarmentosa* Zoll. ex Nees

## 3. Systematic Position:

### APG IV (2016)

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

## 4. Distribution:

**Global:** Malesia, Austrelia, India, Sri Lanka

**India:** S. Deccan Peninsula with Ceylon

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

## 6. Threat Status:

**IUCN:**

**BSI:**

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

8. Life Form: Chamaephytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA C-value Methodology

12. Basic chromosome number(s):  $x=9^{15}$

13. Zygotic chromosome number(s):  $2n=18^{14, 15}$ ,  $2n=36^7$

14. Gametic chromosome number(s):  $n=18^7$

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

Image file

**16. Ploidy level: Diploid<sup>7</sup>**

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 /sub-metacentric<sup>15</sup>

**Chromosome size**-1.0 to 2.4 $\mu\text{m}$ <sup>15</sup>

**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**

**DNA level**

**29. Any other information:**