

Species Datasheet

Datasheet No. A-377.011.020
(family.genus.species)

DBT- 1

1.Taxon:

Species: *Justicia japonica* Thunb.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. **Synonyms:** *Justiciaprocombens* var. *simplex* (D. Don) Yamazaki, *J. simplex* D. Don, *Rostellaria rotundifolia* Nees, *R. japonica* (Thunb.) J.L. Ellis

,

Bentham and Hooker (1862)

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

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. japonica* Thunb.

4.Distribution:

Global: Indo-Malesia and East Africa

India: Kerala, Maharashtra, Karnataka, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Herb. Grasslands and Waste places

8. **Life Form:** Chamaephytes

9. **Economic Importance:** A new lignin - simplexolin – isolated and characterized along with sesamin, asarin, sesamolin and sitosterol

10. Probable Progenitor of:

11.DNAC-valueMethodology

12.Basic chromosome number(s):

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

14. Gametic chromosome number(s): $n=9^{16}$, $n=14^{20}$ $n=18^{3, 12, 19}$

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

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

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: 9II^{16}

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information: