

# Species Datasheet

Datasheet No. A-377.033.006  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Ruellia patula* Jacq.

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Dipteracanthus erectus* Nees, *D. matutinus* C.Presl, *D. ocymoides* C.Presl, *D. patulus* (Jacq.) Nees, *Petalidium patulum* (Jacq.) Dalzell & A. Gibson

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Ruellia* L.
- Species: *R. patula* Jacq.

### Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
  - Ordo: Acanthaceae Juss.
- Genus: *Ruellia* L.
- Species: *R. patula* Jacq.

## 4. Distribution:

**Global:** Mali, South Africa, Namibia, Angola, Swaziland, Botswana, Uganda, Kenya, Tanzania, D.R. Congo, Rwanda, Burundi, Sudan, South Sudan, Somalia, Zambia, Malawi, Mozambique, Zimbabwe, Madagascar, Ethiopia, Eritrea, Mauritania, Pakistan, Myanmar, India, Malaysia, Sri Lanka, Vietnam, Egypt, Oman, Saudi Arabia and Yemen

**India:** Throughout

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

## 6. Threat Status:

**IUCN:**

**BSI:**

**7. Habit and Habitat:** Perennial herb. In a wide variety of grassland, bush, riverine and woodland habitats.

**8. Life Form:** Chamaephytes

## 9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- Value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):  $2n=32^{2,3}$

14. Gametic chromosome number(s):  $n=16^{2,3}$

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/sub-metacentric<sup>3</sup>

Chromosome size – 1.5 $\mu$  to 3 $\mu$ <sup>3</sup>

NOR chromosome(s) -

Degree of asymmetry: Symmetrical<sup>3</sup>

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):