

Species Datasheet

Datasheet No. A-377.009.019
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Barleria noctiflora* L.f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Barleria noctiflora* Hochst. ex A.Rich.

3. Systematic Position:

APG IV (2016)

Kingdom: Plantae

Clade: Angiosperms

Clade: Eudicot

Clade: Asterids

Order: Lamiales Bromhead

Family: Acanthaceae Juss.

Genus: *Barleria* L.

Species: *B. noctiflora* L.f.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Dicotyledons

Subclass: Gamopetalae

Series: Bicarpellatae

Cohors: Personales

Ordo: Acanthaceae Juss.

Genus: *Barleria* L.

Species: *B. noctiflora* L.f.

4. Distribution:

Global: India and Sri Lanka

India: Andhra Pradesh, Karnataka and Tamil Nadu.

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Undershrub. Grows on scrub forests at lower altitudes.

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): $2n=24^6$, $2n=40^{2, 4, 5, 16}$

14. Gametic chromosome number(s): $n=20^5$

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 sub metacentric⁴

Chromosome size – 2.5μ to 4μ ⁴

NOR chromosome(s) -

Degree of asymmetry: Symmetrical⁵

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: 20II⁵

27. Chromosome distribution at anaphase I: Regular Anaphase separation⁵

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stain ability; Translocations etc): Pollen fertility at 86%.