

Species Datasheet

Datasheet No. A-377.009.006
(family.genus.species)

DBT- N

1.Taxon:

Species:*Barleria cuspidata* B.Heyne ex Nees
Subspecies
Variety
Cultivar
Hybrid
Image file

2. Synonyms:

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. cuspidata* B.Heyne ex Nees

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Bicarpellatae
Cohors: Personales
Ordo: Acanthaceae Juss.
Genus: *Barleria*L.
Species: *B. cuspidata* B.Heyne ex Nees

4.Distribution:

Global:India

India: Andhra Pradesh, Karnataka,Kerala, Maharashtra, Rajasthan and Tamil Nadu.

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

6.Threat Status:

IUCN:
BSI:

7.Habit and Habitat:Shrub. Grows indry plains and rocky hillslopes.

8.Life Form:Chamaephytes

9.Economic Importance: Ornamental.

10. Probable Progenitor of:

11.DNA
C-valueMethodology

12.Basic chromosome number(s):x=20⁴

13. Zygotic chromosome number(s):2n=40^{5, 6, 8}

14. Gametic chromosome number(s):n=20^{5, 6, 7}

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytenechromosomes/ Neocentric Chromosomes etc):

Image file

16.Ploidy level:Diploid.

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 –12 pairs of metacentric chromosomes and 8 pairs sub-metacentric chromosomes⁵

Chromosome size-2.6μ to 6.8μm⁵, 1.6μ to 2.6μm⁶

NOR chromosome(s)-

Degree of asymmetry:Medium assymetry⁵

22. Banding pattern(s):

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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:

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information: