

Species Datasheet

Datasheet No. A-377.009.005
(family.genus.species)

DBT- No.

1.Taxon:

Species: *Barleriacristata* L.
Subspecies
Variety
Cultivar
Hybrid
Image filess

2. **Synonyms:***Barleria cristata* Lam.[*B.cristata* var. *albida* Haines](#),*B. cristata*var. *mairei* H. Lév.[*B.cristata*var. *dichotoma* \(Roxb.\) Prain](#)

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. cristata* L.

Bentham and Hooker(1862)

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

4.Distribution:

Global:China, Nepal, Burma, Indo-China, Philippines, Bangladesh, India, Sri Lanka and Pakistan.

India: Cultivated throughout India.

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

6.Threat Status:

IUCN:

BSI:

7.**Habit and Habitat:**Shrub.Cultivated in gardens and found as an escape.

8.**Life Form:**Chamaephytes

9.**Economic Importance:**Ornamental.

10. **Probable Progenitor of:**

11.DNA

C-valueMethodology

12.**Basic chromosome number(s):** $x=20^4$

13. **Zygotic chromosome number(s):** $2n=40^5$, $2n=32^{20}$

14. **Gametic chromosome number(s):** $n=20^{1, 3, 5}$, $n=16^{20}$

15.**Specialized chromosomes (B chromosomes/Sex chromosomes/Polytenechromosomes/Neocentric Chromosomes 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 –Majority metacentric⁵

Chromosome size-3.4, to 6.84μm⁵

NOR chromosome(s)

Degree of asymmetry:Fairly Symmetrical⁵

Image

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:

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information:There issecondary association of bivalents at Metaphase I in 50-60% of the cells⁵.