

1.Taxon:

Species *Barleriatomentosa* Roth.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Barleria paniculata* Nees.

3.Systematic Position: APG IV; Bentham and Hooker: Acanthaceae

APG IV

Bentham and Hooker

Kingdom-Plantae
Subdivision-Spermatophytina
Class-Magnoliopsida
Superorder-Asteranae
Order-Lamiales
Family-Acanthaceae
Genus-*Barleria*
Species-*paniculata*

Kingdom-Plantae
Division-Magnoliophyta
Class-Magnoliopsida
Subclass-Asteridae
Series-Bicarpellatae
Order-Lamiales
Family-Acanthaceae Subfamily-
Barleria

4.Distribution:

Global: Peninsular India.

India: Kerala, Karnataka.

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

6.Threat Status:

IUCN:

BSI

7.Habit and Habitat:Shrub. Grows at open places in dry regions.

8.Life Form:Terrestrial.

9.Economic Importance: Ornamental.

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^5$

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

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

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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 –13 pairs of metacentric and 7 pairs of sub-metacentric chromosomes⁵

Chromosome size-2.5µm to 6.5µm⁵

NOR chromosome(s)

Degree of asymmetry:Medium asymmetry (2B type)⁵

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: