

Species Datasheet

Datasheet No. A-377.009.009
(family.genus.species)

DBT- No.

1.Taxon:

Species: *Barleriagrandiflora*Dalzell
Subspecies
Variety
Cultivar
Hybrid
Image file

2. Synonyms:*Barlerianthus grandiflora* (Dalzell) Oerst.

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. grandiflora* Dalzell

Bentham and Hooker(1862)

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

4.Distribution:

Global: India.

India: Goa, Karnataka and Maharashtra.

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

6.Threat Status:

IUCN:Critically Endangered

BSI:

7.Habit and Habitat:Shrub. Exposed forest margins, grows along roadsides and hillslopes; occasionally grown in homegardens.

8.Life Form:Chamaephytes

9.Economic Importance: Medicinalornamental.

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=44¹⁰

14. Gametic chromosome number(s):n=22¹⁰

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, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype -9 pairs of sub-metacentric and 13 pairs of sub-terminal chromosomes¹⁰

Chromosome size -2.2μ to 4.39μm¹⁰

NOR chromosome(s)

Degree of asymmetry: Moderately symmetrical and fell into the 1B category of Stebbins¹⁰

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: 22II¹⁰

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information: