Species Datasheet

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Datasheet No. A-377.009.004 **DBT- Ne**
(family.genus.species)

1.Taxon:

Species:*Barleriacourtallica*Nees
Subspecies
Variety
Cultivar
Hybrid
Image file

2. Synonyms:*Barleria nutans* Nees, *B. inaequalis*Benth.

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. courtallica*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. courtallica*Nees

4.Distribution:

Global: India and Sri Lanka.

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Shrub.Grows indeep shade localities along streams inmoist evergreen and semi-evergreen forests athigher altitudes.

8.Life Form: Chamaephytes

9.Economic Importance: Medicinal.

10. Probable Progenitor of:

11.DNA
C-valueMethodology

12.Basic chromosome number(s):x=20[4]

13. Zygotic chromosome number(s):2n=40[2, 5]

14. Gametic chromosome number(s):n=20[2]

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

Image file

16.Ploidy level: Diploid[2], Autopolyploid[5]

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 metacentric[5]
Chromosome size-2.33µ to 6.33µ[5]
NOR chromosome(s)

Degree of asymmetry: Symmetrical[5]

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: Meiosis was irregular due to multivalent association[5]

Female meiosis

Male meiosis

27.Chromosome distribution at anaphase I: Irregular separation. Quadrivalents, trivalents, bivalents and univalents were observed in varying frequencies[5]

28. Genetic diversity:

Chromosomal level

DNA level

29.Any other information: Pollen fertility at 38%