

Species Datasheet

Datasheet No. A-377.013.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Blepharis integrifolia* (L. f.) E. Mey. ex Schinz

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: [*Acanthus integrifolius* L.f.](#), [*A.repens* Vahl](#), [*Blepharis integrifolia* var. *integrifolia*](#), [*B.integrifolia* var. *setosa* \(Nees\) Oberm.](#), [*B.molluginifolia* Pers.](#), [*B.repens* \(Vahl\) Roth](#), [*B.rupicola* Engl.](#), [*B.saturejifolia* Pers.](#), [*B.setosa* Nees](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales
- Family: Acanthaceae Juss.
- Genus: *Blepharis* Juss.
- Species: *B. integrifolia* (L. f.) E. Mey. ex Schinz

Bentham and Hooker(1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Blepharis* Juss.
- Species: *B. integrifolia* (L. f.) E. Mey. ex Schinz

4.Distribution:

Global: India, Sri Lanka

India: Karnataka, Kerala, Maharashtra, Tamil Nadu

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Herb. Deciduous forests and scrub forests.

8.Life Form:Chamaephytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=34^{3, 4, 5}$, $2n=36^{1, 2}$,

14. Gametic chromosome number(s): $n=17^{3, 5}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/ Neocentric chromosomesetc):

Image file

16.Ploidy level: Diploid^{3, 4, 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- 3 pairs of metacentric chromosomesand 14pairs of sub-metacentric chromosomes⁵

Chromosome size-1.2 to 2.5µm², 0.93 µm to 2.14 µm⁵

NOR chromosome(s)

Degree of asymmetry:Symmetrical karyotype⁵

Image file

22. Banding pattern(s):

Image file

23Physicalmappingofchromosomes:

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

27.Chromosome distribution at anaphase I:

28. Pollen Stain ability (%):

29. Genetic diversity:

Chromosomal level

DNA level

30. Any other information:(Translocations; Inversion; Female meiosis; Male meiosis; Male sterility)