

Species Datasheet

Datasheet No. A-061.057.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Goodyera biflora* (Lindl.) Hook.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Epipactis biflora* \(Lindl.\) A.A.Eaton](#)

[*Epipactis macrantha* \(Maxim.\) A.A.Eaton](#)

[*Epipactis pauciflora* \(Schltr.\) Hu](#)

[*Georchis biflora* Lindl.](#)

[*Goodyera biflora* var. *macrantha* \(Maxim.\) T.Hashim](#)

[*Goodyera macrantha* Maxim.](#)

[*Goodyera macrantha* Maxim. ex Regel](#)

[*Goodyera pauciflora* Schltr.](#)

[*Orchiodes biflorum* \(Lindl.\) Kuntze](#)

[*Peranium macranthum* \(Maxim.\) Makino](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Orchidoideae
- Tribe: Cranichideae
- Subtribe: Goodyerinae
- Genus: *Goodyera* R.Br.
- Species: *Goodyera biflora* (Lindl.) Hook.f.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Neottieae
Subtribus: Spiranthaeae
Genus: *Goodyera* R.Br.
Species: *Goodyera biflora* (Lindl.) Hook.f.

4. Distribution:

Global: Eastern and western Himalayas, Nepal, China, Vietnam, Korea, Japan and Taiwan, 1500-2500m

India: Throughout Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial herb, Geophyte or lithophyte, grows in moist shady places at 2000-3000m

8.Life Form: Cryptophytes

9.Economic Importance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=15^{38,39,40,43}, 16^{17,19,20}$

13. Zygotic chromosome number(s): $2n=32^{19,20},$

$32+2B^{17},$

$30^{38,39,40,43},$

$28-33^{35}$

14. Gametic chromosome number(s): $n=16+0-2B^{17,19}, 15^{9,36,44}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):1-2-B's in few PMC's^{9,19,20}

Image file

16.Ploidy level:Diploid^{17,19,20,38,39,40,43}

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):Aneusomatic PMCs with $n=15$ ⁴⁴(Vij et al 1981) and $n=10-14$
IIs³⁶

21.Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

Image file

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 meiosiscytotype= $16:16II + 1-2 B's$ ^{9, 19, 20}

Cytotype $n=15: 15II$ ³⁶

Image file

27.Chromosome distribution at anaphase I: $n=16$ cytotype: normal $16:16$ distribution at A-I, $15:17$ ^{9, 19, 20},

$n=15$ cytotype: normal $15:15$ distribution³⁶ (Shekhar 1984)

28. Genetic diversity:

Chromosomal level

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DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):