

Species Datasheet

Datasheet No. A-061.047.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dactylorhiza hatagirea* (D. Don) Soó

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Dactylorhiza hatagirea var. *doniana* (Soó) Soó

Dactylorhiza hatagirea var. *schlaginweitii* (Soó) Soó

Orchis hatagirea D. Don

Orchis hatagirea var. *doniana* Soó

Orchis hatagirea var. *schlaginweitii* Soó

Orchis latifolia var. *indica* Lindl.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Orchidoideae
- Tribe: Orchideae
- Subtribe: Orchidinae
- Genus: *Dactylorhiza* Neck. ex Nevski
- Species: *Dactylorhiza hatagirea* (D. Don) Soó

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Ophrydeae
Genus: *Orchis* Tourn. ex L.
Species: *Orchis hatagirea* D. Don

4. Distribution:

Global: India, China North-Central, China South-Central, East Himalaya, Inner Mongolia, Manchuria, Mongolia, Nepal, Pakistan, Qinghai, Tibet, West Himalaya, Xinjiang

India: Sikkim, Himachal Pradesh, Uttarakhand, Jammu and Kashmir

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

6. Threat Status:

IUCN: Critically endangered

BSI:

7.Habit and Habitat:Terrestrial, erect herb, up to 60 cm high

8.Life Form:Cryptophyte

9.Economic Importance:Ornamental and medicinal. The rhizome of this plant is credited with aphrodisiac, demulcent, nutritive, astringent and tonic properties.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{33}$

13. Zygotic chromosome number(s): $2n=40^{33}$

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

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

Image file

16.Ploidy level: Diploid³³

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

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 meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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