Species Datasheet

Datasheet No. A-061.070.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species**:** *Peristylusdensus* (Lindl.) Santapau& Kapadia
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Coeloglossumcernuum*Rchb.f.
*Coeloglossumdensum*Lindl.
Coeloglossumflagelliferum Maxim. ex Makino
*Coeloglossumperistyloides*Rchb.f.
*Coeloglossumtenue*Lindl. [Invalid]
*Glossulapasserina*Gagnep.
*Gymnadeniatenuis*Lindl. ex Wall. [Invalid]
*Habenariaatramentaria*Kraenzl.
*Habenariabuchneroides*Schltr.
*Habenariadankiaensis*Gagnep.
*Habenariaevrardii*Gagnep.
Habenariaflagellifera Makino
Habenariaflagellifera var. *yosiei*H.Hara
*Habenariahiugensis*Ohwi
Habenarianeglecta King &Pantl.
Habenariapasserina (Gagnep.) Tang &F.T.Wang
Habenariaperistyloides Wight [Illegitimate]
*Habenariasatsumana*Ohwi
Habenariastenostachya (Lindl. ex Benth.) Benth.
Habenariastenostachya subsp. *buchneroides* (Schltr.) Soó
Peristylusflagellifer (Makino) Ohwi
*Peristylushiugensis*Ohwi
Peristylusneglectus (King &Pantl.) Kraenzl.
*Peristylusperistyloides*M.R.Almeida [Illegitimate]
*Peristylussatsumanus*Ohwi
Peristylusstenostachyus (Lindl. ex Benth.) Kraenzl.
Peristylusxanthochlorus Blatt. & McCann
*Platantherastenostachya*Lindl. ex Benth.

3.Systematic Position:
APG IV (2016)

- Kingdom: Plantae
- Clade: Angisperms
- Clade: Monocots
- Order: Asparagales Link

- Family: OrchidaceaeJuss.
- Subfamily: Orchidoideae
- Tribe: Orchideae
- Subtribe: Orchidinae
- Genus: *Peristylus* Blume
- Species: *Peristylusdensus* (Lindl.) Santapau& Kapadia

4.Distribution:

Global: China, Hong Kong, India, Myanmar, Nepal, China, Thailand and Vietnam, 300-2100m

India: Arunachal Pradesh, Goa, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tamil Nadu

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Small to medium sized tuberous herb;evergreen forests.

8.Life Form: Cryptophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=21[14, 17, 20, 21],22 [23, 24], 23[3, 5]

13. Zygotic chromosome number(s):2n=42[21] ,

42+1-2B,46,44-50[17, 20] ,42+2B, 46[14] , 42+2B, 46[14]

46[3, 5] ,88 [23, 24]

14. Gametic chromosome number(s):n=

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

Image file

16.Ploidy level: Diploid[3, 5, 14, 17, 20, 21]

Tetraploid[23, 24]

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty): Aneuploid 2n=44-50[17, 20]

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 Two types of plants observed 1) White flowered found at lower and higher altitudes; 21 II+1-2B's at diakinesis, 2) Green flowered found only at higher altitudes shows 23 IIs at diakinesis, two IIs quite smaller than the rest, many bivalents show desynapsis, 3) Another green flowered population showed 2n=44-50 [17, 20]

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;Translocationsetc.):