

Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.007.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Anthogoniumgracile*Wall. exLindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Anthogoniumcorydaloides*Schltr., *Anthogoniumgriffithii*Rchb.f.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Arethuseae
- Subtribe: Arethusinae
- Genus: *Anthogonium*Wall. exLindl.
- Species: *Anthogoniumgracile* Wall. exLindl.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Genus: *Anthogonium*Wall. exLindl.
Species: *Anthogoniumgracile* Wall. exLindl.

4.Distribution:

Global: India, Bangladesh, Himalayas, Nepal, Myanmar, Thailand, Cambodia, Laos, Vietnam and China

India: Eastern Himalayas, extending from Nepal to Darjeeling and Sikkim hills from 1200-2000m, Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland.

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Terrestrial herbs, grows on open grassy or gravelly slopes at 1200-2000m

8.Life Form: Cryptophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{2, 3, 4, 7}$, $20^{5, 10, 11}$, $27^{6, 8}$

13. Zygotic chromosome number(s): $2n=38^{2, 3, 4, 7}$, $40^{5, 10, 11}$, $42^{1, 9}$, $54^{6, 8}$

14. Gametic chromosome number(s): $n=19^{3, 4, 7}$, 20^5 , $27^{6, 8}$

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

Image file

16.Ploidy level:Diploid $^{2, 3, 4, 5, 6, 7, 8, 10, 11}$

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: $2n=40$ cytotype:⁹

KaryotypeMedian, submedian, two pairs subterminal⁹

Chromosome size Small⁹

NOR chromosome(s)2⁹

Degree of asymmetryModerately asymmetrical⁹

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: $n=19$ cytotype: $19 \text{ II}^{2,4}$

$n=20$ cytotype: 20 II^9

Image file

27.Chromosome distribution at anaphase I:Chromosome numbers in different members of tetrads varies from 18 to $21^{4,7}$

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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