

Datasheet No. A-061.070
(Family:Genus)

DBT- Network Programme

1. Genus:*Peristylus*Blume

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: OrchidaceaeJuss.
- Subfamily:Orchidoideae
- Tribe:Orchideae
- Subtribe:Orchidinae
- Genus: *Peristylus* Blume

3. Species:

Global: 103

India:26

4. Taxonomic riddles:⁴

5. Distribution:

Global: Distributed from Mascarenes,tropical and subtropical Asia to the Pacific region.

India:Peninsular India (Western Ghats & Eastern Ghats) to the Himalayas and Andaman and Nicobar Islands

6. Habit and Habitat:Terrestrial tuberous herbs,grasslands and forests

7.Economic Importance:Some species used in medicine.

8. DNA content range:

Methodology

9. Basic chromosome number(s):x=15^{6, 7, 12, 13},17^{14, 17},19², 20^{8, 11, 13, 25},

21^{1, 7, 8, 9, 10,12, 13, 14, 17, 18, 19, 20, 21},22^{15, 17, 23, 24}, 23^{3, 5, 16, 17, 20}

10. Zygotic chromosome number(s): $2n=30^{7, 12, 13}$, 34^{14} , 38^2 , $40^{11, 25}$,

$42^{1, 7, 8, 9, 10, 12, 13, 18, 19, 21}$, $42+1-2B, 46, 44-50^{17, 20}$, $42+2B$, 46^{14} , $42+2B$, 46^{14} , 44^{15}

$46^{3, 5}$, $46+1-3B^{16, 17}$, $80^{11, 25}$, $88^{23, 24}$, 122^{14} , $122-134^{17}$

11. Gametic chromosome number(s): $n=17^{14, 17}$, $15+0--3B^{6, 13}$, $20^{8, 11, 13, 25}$, $21^{1, 18, 19}$,

22^{15} , $23+1-3Bs^{17, 20}$, 61^{14}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/

Neocentric chromosomes): $3, 13$

13. Ploidy level Diploid $1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 25$,

Hypohexaploid to hyperhexaploid numbers $14, 17$,

Tetraploid $11, 25$

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: $2, 6, 7, 8, 13$

Meiosis: $15, 17, 19, 20$

17. Banding pattern(s):

18. Physical mapping of chromosomes:

19. Phylogenetic relationship at Chromosomal; DNA level:⁴

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: