

Datasheet No. A-061.074
(Family, Genus)

DBT- Network Programme

1. Genus: *Pleione* D. Don

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Arethuseae
- Subtribe: Coelogyninae
- Genus: *Pleione* D. Don

3. Species:

Global: 25

India: 6

4. Taxonomic riddles: 3, 4

5. Distribution:

Global: Bangladesh, China North-Central, China South-Central, China Southeast, India, Laos, Myanmar, Nepal, Taiwan, Thailand, Tibet, Vietnam

India: Arunachal Pradesh, Uttarakhand, Manipur, Nagaland, Sikkim, West Bengal, Mizoram

6. Habit and Habitat: Epiphytic herb

7. Economic Importance: Ornamental, medicinal

8. DNA content range:

Methodology

9. Basic chromosome number(s): $x=20$ 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

10. Zygotic chromosome number(s): $2n=40$ ^{2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18} , 40
 $3B$ ⁶ , $40+0-2B$ ¹⁸ , $40+0-3B$ ¹⁹ , 60 ¹⁷

11. Gametic chromosome number(s): $n=20$ ^{7, 8, 9, 10} , $20+0-3B$ ¹⁹

**12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/
Neocentric chromosomes):**

13. Ploidy level $Diploid$ ^{2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19} ,
 $Triploid$ ¹⁷

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):^{9, 13}

16. Karyograms: ^{15, 17}

Meiosis: ^{9, 13}

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:^{3, 4}

21. Linkage map:

22. Any other information: