

# Species Datasheet

Datasheet No. A-061.074.003  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Pleione hookeriana* (Lindl.) Rollisson

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

[\*Coelogyne hookeriana\* Lindl.](#)

[\*Coelogyne hookeriana\* var. \*brachyglossa\* Rchb.f.](#)

[\*Pleione hookeriana\* \(Lindl.\) Kuntze](#)

[\*Pleione hookeriana\* \(Lindl.\) B.S. Williams](#)

[\*Pleione hookeriana\* var. \*brachyglossa\* \(Rchb.f.\) Rolfe](#)

[\*Pleione laotica\* Kerr](#)

## 3. 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
- Species: *Pleione hookeriana* (Lindl.) Rollisson

## 4. Distribution:

**Global:** India, Nepal, Bhutan, Sikkim, Myanmar, Thailand, Laos and southern China, 2200-4000m

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

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

## 6. Threat Status:

IUCN:

BSI:

**7. Habit and Habitat:** Small sized, cool to cold growing epiphyte, lithophyte or terrestrial

**8.Life Form:** Phanerophytes

**9.Economic Importance:**Cultivated ornamental

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=20^{7, 16, 17}$

**13. Zygotic chromosome number(s):** $2n=40^{7, 16, 17}$ ,  $40+1-2B^6$

**14. Gametic chromosome number(s):** $n=20^7$

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

Image file

**16.Ploidy level:** Diploid<sup>7, 16, 17</sup>

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:**<sup>17</sup>

**Karyotype** Median, submedian<sup>17</sup>

**Chromosome size** Small<sup>17</sup>

**NOR chromosome(s)**

**Degree of asymmetry** Symmetrical<sup>17</sup>

Image file

**22. Banding pattern(s):** C Banding<sup>17</sup>

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;Translocationsetc.):**