

Genus Datasheet

Datasheet No. G-012.001
(Family.Genus)

DBT- Network Programme

1. **Genus:** *Cephalotaxus* Siebold & Zucc. ex Endl.

2. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Cupressales Link
- Family: Taxaceae Gray
- Genus: *Cephalotaxus* Siebold & Zucc. ex Endl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Taxeae Rich. ex Duby
Genus: *Cephalotaxus* Siebold & Zucc.
ex Endl.

3. Species:

Global: 8

India: 2

4. Taxonomic riddles:⁷

5. Distribution:

Global: China (Guangdong, Guangxi, Tibet [or Xizang], Yunnan), Bhutan, India, Lao People's Democratic Republic, Myanmar, Thailand, Viet Nam

India: Arunachal Pradesh, Assam, Bhutan, Manipur, Meghalaya, Mizoram, Myanmar, Nagaland, Uttarakhand, West Bengal

6. **Habit and Habitat:** Evergreen shrubs and small trees, occurs in mixed evergreen or deciduous forests.

7. **Economic Importance:** Timber, medicinal and eminently suitable for use in horticulture

8. DNA content range:

Methodology

C-value $2C(45.24\text{pg})^6$ **Methodology** Feulgen microdensitometry⁶

C-value $2C(50.70\text{pg})^5$ **Methodology** Flow cytometry⁵

9. Basic chromosome number(s): $x=12^{1,2,3,4,9}$

10. Zygotic chromosome number(s): $2n=24^1$

1. Gametic chromosome number(s): $n=12^{4,8,9}$, 12 (endosperm mitosis)³

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

13. Ploidy level:Diploid^{1,3,4}

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

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

16. Karyograms: ³

Meiosis:^{4,8,9}

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: