Genus Datasheet

Datasheet No. G-011.004 (Family.Genus)

DBT- Network Programme

1.	Genus:	Cryptom	ieriaD.	Don

2.	Systen	natic I	Position:

Christenhuszet al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: PinidaeCronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: CryptomeriaD. Don

Bentham	and	Hool	ker ((1862)
Denunam	anu	IIVU	IXCI I	1002

Kingdom: Plantae

Division: Phanerogamia Class: Gymnospermeae

Ordo: Coniferae

Tribus: TaxodieaeEichler Genus: *Cryptomeria*D. Don

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Global:1

India:1

- 4. Taxonomic riddles:
- 5. Distribution:

Global: Native to Japan

India: Arunachal Pradesh, Sikkim, West Bengal

- **6. Habit and Habitat:**very large <u>evergreentree</u>, reaching up to 70 m (230 ft) tall and 4 m (13 ft) trunk diameter,occurs naturally in pure and mixed stands from Kyushu to N Honshu at elevations to 400 m
- **7.Economic Importance:**It is used in house construction, panelling, flooring, carpentry, joinery, and furniture making. The fibrous bark was traditionally used for roofs of houses but is now more often processed as a general fibre or composted.

8. DNA content range:

Methodology

2C (20.60-22.10 pg)^{5, 24}Flow cytometry⁵, ²⁴

- **9. Basic chromosome number(s):** x=11^{1, 4, 8, 7, 9, 10, 11, 12 13, 14, 15, 16, 17, 25}
- **10. Zygotic chromosome number(s):** 2n=22^{1,2, 3, 4, 8, 9, 10, 11, 12 13, 14, 15, 16, 17}
- **1. Gametic chromosome number(s):**n=11^{2, 3, 15, 17, 25}
- 12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):
- **13. Ploidy level:**Diploid<sup>1,2, 3, 4, 8, 9, 10, 11, 12 13, 14, 15, 16, 17, 25

 Triploid (sporadic) ⁹</sup>
- 14. Nature of polyploidy (auto, segmental, allo, autoallo):
- 15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):
- **16. Karyograms:** 1,2, 3, 4, 8, 9, 10, 11, 12 13, 14, 15, 16, 17 **Meiosis:** 2,3, 25
- 17. Banding pattern(s): CMA⁺, DAPI⁺bands^{3,8,9}
- 18. Physical mapping of chromosomes: 18S rRNA², 45S rDNA⁴

- 20. Cytogenetic mechanism (s) underlying evolution:
- **21.** Linkage map: ²², ²³
- 22. Any other information: