

Genus Datasheet

Datasheet No. G-011.002

(Family.Genus)

DBT- Network Programme

1. Genus: *Callitris* Vent.

2. Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Callitris* Vent.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Cupressineae
Genus: *Callitris* Vent.

3. Species:

Global: 15

India: 2

4. Taxonomic riddles:^{10, 11}

5. Distribution:

Global: Native to [Australia](#) and [New Caledonia](#)

India: Naturalized in South Indian Hill Stations, Tamil Nadu, Planted in Sikkim

6. Habit and Habitat: Small to medium-sized [trees](#) or large [shrubs](#), reaching 5–25 m (16–82 ft) tall, grows in woodlands on the coast and tablelands. Usually found in open woodland in montane areas but also on coastal and inland areas, at sea level and in mountainous areas up to 1,300 m. *C. columellaris* occurs in a wide range of semi-arid and mesic habitats.

7. Economic Importance: The termite and rot resistant wood has been locally used for fencing in some areas. Used as an ornamental view and also used for dendroclimatological studies.

8. DNA content range:

2C (16.53–22.33 pg)⁷

2C (18.00 pg)⁸

Methodology

Feulgen microdensitometry⁷

Flow cytometry⁸

9. Basic chromosome number(s): $x=11$ ^{1, 2, 3, 4, 5, 6, 7, 9}

10. Zygotic chromosome number(s): $2n=22$ ^{2, 4, 5, 6, 7, 9}

1. Gametic chromosome number(s): $n=$

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

13. Ploidy level: Diploid^{1, 2, 4, 5, 6, 7, 9}

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

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

16. Karyograms: 2, 4, 5, 6, 9

Meiosis:

17. Banding pattern(s): CMA⁺ bands⁹

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: ^{10, 11}

21. Linkage map:

22. Any other information: