

Species Datasheet

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Datasheet No. G-008.002.004
(family.genus.species)

1.Taxon:

Species: *Araucaria cunninghamii* Aiton ex D. Don

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. **Synonyms:** *Araucariacunninghamii* var. *cunninghamii*, *A.cunninghamii* var. *glauca* Endl., *A.cunninghamii* f. *glauca* (Endl.) F.M.Bailey, *A.cunninghamii* var. *longifolia* Antoine, *A.glauca* Antoine, *Eutactacunninghamii* (Mudie) Link, *E.cunninghamii* var. *glauca* (Antoine) Carrière, *E.cunninghamii* var. *longifolia* (Antoine) Carrière, *E.cunninghamii* var. *pendula* Carrière, *E.cunninghamii* var. *taxifolia* Carrière, *E.cunninghamii* (Mudie) G.Don, *E.cunninghamii* (Aiton ex D. Don) Spach

3.Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Araucariales Gorozh.,
- Family: Araucariaceae Henkel & W.Hochst.
- Genus: *Araucaria* Juss.
- Species: *A. cunninghamii* Aiton ex D. Don

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Araucarieae D. Don

Genus: *Araucaria* Juss.

Species: *A. cunninghamii* Aiton ex D. Don

4.Distribution:

Global: Australia, Indonesia and Papua New Guinea

India: Planted in Punjab

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat:Large evergreen tree (60 m tall), found in dry rainforests

8.LifeForm:Phanerophytes

9.Economic Importance: Timber, edible nuts, ornamental

10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C (35.70 pg) ⁸

Flowcytometry⁸

2C (21.80 pg) ⁷

Feulgenmicrodensitometry⁷

12.Basic chromosome number(s): $x=13^{3, 4, 7}$

13. Zygotic chromosome number(s): $2n=26^{3, 7}$

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

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

Image file

16.Ploidylevel:Diploid^{3, 7}

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:³

KaryotypeMostly median submedian³

Chromosome sizeLarge³

NOR chromosome(s)

Degree of asymmetrySymmetrical³

Image file

22. Banding pattern(s):

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; Translocation etc.):