

Species Datasheet

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Datasheet No. G-008.002.002
(family.genus.species)

1.Taxon:

Species: *Araucaria bidwillii* Hook.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. **Synonyms:** *Columbea bidwillii* (Hook.) Carriere, *Marywildea bidwillii* (Hook.) A.V.Bobrov & Melikyan

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. bidwillii* Hook.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Araucarieae D. Don

Genus: *Araucaria* Juss.

Species: *A. bidwillii* Hook.

4.Distribution:

Global: Australia

India: Uttarakhand

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

6.Threat Status:

IUCN: Least concern

BSI:

7. **Habit and Habitat:** Large evergreen tree (30-45 m tall), subtropical region

8.Life Form:Phanerophytes

9.Economic Importance:This species is regarded sacred and used for its edible seeds (or nuts)

10. Probable Progenitor of:

11.DNA

C-value2C(44.40pg)⁸

MethodologyFlow cytometry⁸

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

13. Zygotic chromosome number(s): $2n=26$ ³

14. Gametic chromosome number(s): $n=13$ (endosperm mitosis)⁵

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

Image file

16.Ploidy level:Diploid^{3, 5}

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, 5}

KaryotypeMostly median and submedian^{3, 5}

Chromosome size Large^{3, 5}

NOR chromosome(s)

Degree of asymmetry Symmetrical^{3, 5}

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.):