

Species Datasheet

Datasheet No. G-008.001.001
(family.genus.species)

1.Taxon:

Species: *Agathis robusta* (C. Moore ex F.Muell.) F.M. Bailey

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file:

2.Synonyms:*Agathis palmerstonii* (F.Muell.)F.M.Bailey, *A. robusta* var. *palmerstonii* (F.Muell.)Silba, *A. robusta* subsp. *palmerstonii* (F.Muell.)Silba, *A. robusta* subsp. *robusta*, *Dammara bidwillii* Guilfoyle, *D. palmerstonii* F.Muell.,*D. robusta* C.Moore ex F.Muell.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass:PinidaeCronquist
- Order: AraucarialesGorzh.,
- Family:Araucariaceae Henkel &W.Hochst.,
- Genus:*Agathis*Salisb.
- Species: *A. robusta*(C. Moore ex F.Muell.) F.M. Bailey

Bentham and Hooker (1862)

Kingdom: Plantae

Division:Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus:Araucarieae D. Don

Genus: *Agathis*Salisb.

Species: *A. robusta* (C. Moore ex F.Muell.) F.M. Bailey

4.Distribution:

Global:Australia,Papua New Guinea

India: Planted in various gardens

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Large evergreen tree (30-50 m tall), Lowland subtropical and tropical evergreen montane rainforest, 5-199 m a.s.l

8.LifeForm:Phanerophytes

9.EconomicImportance:Timber

10. Probable Progenitor of:

11.DNA

C-value 2C (21.64 pg)⁴ **Methodology** Feulgen microdensitometry⁴

12.Basic chromosome number(s): $x=13$ ^{1,2,3}

13. Zygotic chromosome number(s): $2n=26$ ^{1, 2, 3, 4}

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

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

Image file

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

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:^{1, 3}

KaryotypeMostly median, submedian^{1, 3}

Chromosome sizeLarge^{1, 3}

NOR chromosome(s)

Degree of asymmetrySymmetrical^{1, 3}

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.):