

Species Datasheet

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Datasheet No. G-009.001.001
(family.genus.species)

1.Taxon:

Species: *Afrocarpus falcatus* (Thunb.) C.N. Page

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file:

2. Synonyms: *Afrocarpus falcatus* subsp. *gaussenii* (Woltz) Silba, *A. gaussenii* (Woltz) C.N. Page, *Decussocarpus falcatus* (Thunb.) de Laub., *Nageia falcata* (Thunb.) Carriere, *N. falcata* var. *gaussenii* (Woltz) Silba, *N. meyeriana* (Endl.) Kuntze, *Podocarpus falcatus* (Thunb.) Endl., *P. falcatus* (Thunb.) R. Br. ex Mirb., *P. gaussenii* Woltz, *P. gracillimus* Stapf, *P. meyerianus* Endl., *Taxus falcata* Thunb.

3.Systematic Position:

Christenhusz et al. 2011

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Araucariales Gorozh.,
- Family: Podocarpaceae Endl.,
- Genus: *Afrocarpus* (J. Buchholz & N.E. Gray)
C.N. Page
- Species: *A. falcatus* (Thunb.) C.N. Page

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Podocarpeae Dumort.

4.Distribution:

Global: Native to the montane forests of southern Africa distributed in Malawi, Mozambique, South Africa, and Swaziland

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat:Evergreen tree (45 m tall), found in rainforest and descends to moist coastal forest in the subtropics

8.Life Form:Phanerophytes

9.Economic Importance:Timber, ornamental

10. Probable Progenitor of:

11.DNA

C-value2C (11.60 pg) **Methodology**Flow cytometry⁵

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

13. Zygotic chromosome number(s): $2n=24^{1, 2, 3}$

14. Gametic chromosome number(s): $n=12^2$

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

Image file

16.Ploidy level: Diploid^{1, 2, 3}

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:^{2,3}

KaryotypeMedian and subterminal^{2,3}

Chromosome sizeLarge^{2,3}

NOR chromosome(s)

Degree of asymmetryAsymmetrical^{2,3}

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.):