

Species Datasheet

Datasheet No. G-007.001.001
(Family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Abiesforrestii*Coltm.-Rog.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file:

2. Synonyms:*Abies chengii* Rushforth, *A. delavayi* Diels, *A. delavayi* var. *forrestii* (Coltm.-Rog.)A.B.Jacks., *A. forrestii* Craib,*A. forrestii* subsp. *chengii* (Rushforth) Silba, *A. forrestii* var. *chengii* (Rushforth) Silba, *A. forrestii* var. *forrestii*, *A. georgei* Hand.-Mazz.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Pinales Gorozh.
- Family: Pinaceae Spreng. ex F. Rudolphi
- Genus: *Abies* Mill.
- Species: *A. forrestii* Coltm.-Rog.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae

Genus: *Abies* Mill.

Species: *Abiesforrestii* Coltm.-Rog.

4.Distribution:

Global: Northwest Yunnan, Southwest Sichuan, and Tibet

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat:Large evergreen tree,this species occurs in the high mountains at elevations between 2,400 m and 4,300 m above sea level,the climate is cold and wet.

8.LifeForm:Phanerophytes

9.Economic Importance: Ornamental and timber

10. Probable Progenitor of:

11.DNA

C-value Methodology

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

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

14. Gametic chromosome number(s): $n=12$ (endosperm mitosis) 2, 3

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

Image file

16.Ploidy level:Diploid2, 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: Endosperm mitosis 2,3

Karyotype Median and subterminal2,3

Chromosome size Large2,3

NOR chromosome(s)3 (endosperm mitosis)2,3

Degree of asymmetryModerately asymmetrical2,3

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;Translocationsetc.):