

Species Datasheet

Datasheet No. G-007.005.003
(Family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Pinus canariensis* C. Sm.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:

3.Systematic Position:

Christenhusz et al. (2011)

Class: Equisetopsida C. Agardh

Subclass: Pinidae Cronquist

Order: Pinales Gorozh.

Family: Pinaceae Spreng.

Genus: *Pinus* L.

Species: *P.canariensis* C. Sm.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae Eichler

Genus: *Pinus* L.

Species: *P. canariensis* C. Sm.

4.Distribution:

Global: Canary Island, now in cultivation in many parts of the world

India: Tamil Nadu

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

6.Threat Status:

IUCN:Least concern

BSI:

7.Habit and Habitat: Evergreen tree 30-40m high, In the Canary Islands this species occupies fairly extensive forest areas above an altitude of 1,200 m to ca. 2,200 m a.s.l. It grows well on

exposed mountain slopes of volcanic origin amidst or on old lava flows and on scoria.

8.LifeForm:Phanerophytes

9.EconomicImportance:Timber, ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (64.30pg) 96 Flow cytometry96

2C (66.82

pg)

20 Flow cytometry20

12.Basic chromosome number(s): $x=12$ 8, 23, 35, 49, 64

13. Zygotic chromosome number(s): $2n=24$ 8, 23, 49

14. Gametic chromosome number(s): $n=12$ (endosperm mitosis)64

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

Image file

16.Ploidy level:Diploid8, 23, 49, 64

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: 23, 49, 64

Karyotype Median shortest pair submedian23, 49, 64

Chromosome sizeLarge23, 49, 64

NOR chromosome(s)1023

Degree of asymmetrySymmetrical23, 49, 64

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.):