Species Datasheet

Datasheet No. G-007.005.021
(family.genus.species)

1.Taxon:

Species: *Pinus rigida* Mill.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file

2. Synonyms:*Pinus fraseri* Lodd., *P. loddigesii* Loudon, *P. rigida* f. *globosa* Allard, *P. rigida* f. *rigida*, *P. rigida* var. *rigida,*. *P. taeda* var. *rigida* (Mill.) Aiton

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.rigida*Mill.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Abietineae Eichler
Genus: *Pinus*L.
Species: *P. rigida*Mill.

4.Distribution:

Global: Southern areas of northeastern United States from coastal Maine and Ohio to Kentucky and northern Georgia

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Evergreen tree (6-30 m tall).it grows on shallow sandy or gravelly soils poor in nutrients, usually well drained, but sometimes water-logged

8.Life Form: Phanerophytes

9.Economic Importance: Timber, pulp, fuel

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (15.50 pg) [14]	Feulgen microdensitometry [14]
2C (17.60 pg) [12]	Feulgen microdensitometry [12]
2C (17.80 pg) [13]	Feulgen microdensitometry [13]
2C (41.60 pg) [63]	Feulgen microdensitometry[63]
2C (48.30 pg) [20]	Flow cytometry[20]

12.Basic chromosome number(s):x=12 [8, 12, 23, 35, 63, 73, 74, 93]

13. Zygotic chromosome number(s):2n=24[8, 12, 23, 63, 73, 74, 93]

14. Gametic chromosome number(s):n=

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

Image file

16.Ploidy level: Diploid [8, 12, 23, 63, 74, 93]

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, 74]

Karyotype Median shortest pair submedian[23, 74]

Chromosome size Large[23, 74]

NOR chromosome(s) 10 [23]

Degree of asymmetry Symmetrical[23, 74]

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.):