Species Datasheet

Datasheet No. G-007.005.011 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species: *Pinus kesiya* Royle ex Gordon
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. Synonyms:*Pinus cavendishiana* Parl., *P. insularis* var. *khasyana* (Griff.) Silba, *P. kasya* Parl.,
P. kasya Royle ex Parl., *P. khasia* Engelm., *P. khasya* Hook.f., *P. khasyana* Griff.

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.kesiya* Royle ex Gordon

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

4.Distribution:
Global: Native toChina (Yunnan), India (Meghalaya), Malaysia, Philippines
India: North East India

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

6.Threat Status:
IUCN: Least concern
BSI:

7.Habit and Habitat: Evergreen tree (30-35 m).*P. kesiya* occurs in pine savannas, pure stands with nearly closed canopy, and mixed pine-broad-leaved forests in valleys with e.g. *Quercus serrata* and *Alnus nepalensis* along streams. It occupies drier sites in North East India, Myanmar and Thailand, at altitudes generally between 800 and 1,500 m a.s.l.

8.Life Form: Phanerophytes

9.Economic Importance:*P. kesiya*is an important timber tree and most common use is for pulpwood in the
paper industry

10. Probable Progenitor of:
11.DNA
C-value Methodology
2C (51.40 pg) 32 Flow cytometry32
12.Basic chromosome number(s):x=12 8, 23, 35, 48, 49
13. Zygotic chromosome number(s):2n=24 8, 23, 48, 49
14. Gametic chromosome number(s): n=
15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):
Image file
16.Ploidy level: Diploid 8, 23, 48, 49
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: 8, 23, 48, 49
Karyotype Median two shorter pairs submedian8, 23, 48, 49
Chromosome size Large 8, 23, 48, 49
NOR chromosome(s) 10 23
Degree of asymmetry Symmetrical8, 23, 48, 49
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.):