Species Datasheet

Datasheet No. G-007.004.003 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species: *Picea orientalis* (L.) Peterm.
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. Synonyms:*Abies orientalis* (L.) Poir., *A. wittmanniana* Voss, *Picea orientalis* f. *atrovirens* Schelle, *P. orientalis* var. *aurea* Otto, *P. orientalis* f. *aurea* (Otto) Beissn., *P. orientalis* f. *aureospicata* Beissn., *P. orientalis* var. *nana* Carriere, *P. orientalis* f. *nana* (Carriere) Rehder, *P. orientalis* f. *nutans* Schelle, *P. withmanniana* Carriere, *P. wittmanniana* Fisch. ex Gordon, *Pinus orientalis* L.

3.Systematic Position:
Christenhusz*et al.* (2011)
Class: Equisetopsida C. Agardh
Subclass: Pinidae Cronquist
Order: Pinales Gorozh.
Family: Pinaceae Spreng.
Genus:*Picea*A. Dietr.
Species: *P. orientalis*(L.) Peterm.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Abietineae Eichler
Genus: *Picea*A. Dietr.
Species: *P. orientalis*(L.) Peterm.

4.Distribution:
Global: Native to Georgia; Russian Federation; Turkey
India:

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

6.Threat Status:
IUCN: Least concern
BSI:

7.Habit and Habitat: Large evergreen tree (30-45 m tall), Dark coniferous and mixed forests made up of Oriental Spruce are vertically spread from 600 to 2,100 m a.s.l.

8.Life Form: Phanerophytes

9.Economic Importance: An important timber tree

10. Probable Progenitor of:

11.DNA
C-value Methodology
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12.Basic chromosome number(s):x=125, 6, 8, 16

13. Zygotic chromosome number(s):2n=245, 6, 16

14. Gametic chromosome number(s):n=

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

16.Ploidy level: Diploid5, 6, 16
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:5, 6
KaryotypeMedian and submedian5, 6
Chromosome size Large5, 6
NOR chromosome(s)85
Degree of asymmetry Symmetrical5, 6
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 level6
Image file
DNA level

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):