

Genus Datasheet

DBT- Network

Datasheet No. G-007.001
Programme
(Family.Genus)

1. Genus: *Abies* Mill.

~~Kingham. 1862~~
~~Hooker (1862)~~
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Abletneae
Genus: *Abies* Mill.

2. 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.

3. Species:

Global: 48

India: 5

4. Taxonomic riddles:^{4, 5, 6}

5. Distribution:

Global: North America, Central America, Europe, North Africa, Asia (South to Himalaya, South China, and Taiwan)

India: Jammu & Kashmir, Sikkim, Himachal Pradesh, Uttarakhand, Western Himalayas.

6. Habit and Habitat: Monoecious evergreen trees with a spire-like or conic crown that often becomes flattened or rounded in old trees. Grows in temperate and boreal regions of the northern hemisphere, chiefly in mountainous regions. Excepting the two boreal species, *A. balsamea* (in North America) and *A. sibirica* (in Eurasia), the genus is confined to mountainous areas in the subtropical and temperate latitudes of the northern hemisphere

7. Economic Importance: Timber is valuable; used for making fruitcates, planking for ceiling, floor board and shingles for houses in the Himalayan region of India. Ornamental, timber, paper pulp

8. DNA content range:

Methodology

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

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

1. Gametic chromosome number(s): $n=12$ (endosperm mitosis) ^{2,3}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):

13. Ploidy level: Diploid ^{2,3}

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: ^{2,3}

Meiosis:

17. Banding pattern(s):

19. Phylogenetic relationship at Chromosomal; DNA level: 4, 5, 6

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: