Species Datasheet

Datasheet No. A-076.018.008
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Phoenix sylvestris* (L.) Roxb.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Elate sylvestris* L., *E. versicolor* Salisb.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Arecaceae Bercht. & J. Presl
- Genus: *Phoenix* L.
- Species: *P. sylvestris* (L.) Roxb.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Calycinae
Ordo: Palmae Juss.
Genus: *Phoenix* L.
Species: *P. sylvestris* (L.) Roxb.

4. Distribution:

Global: Bangladesh, Bhutan, India, Myanmar, Nepal and Pakistan

India: Throughout

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Tree. Low elevations, disturbed plains, open grassy areas, adapted to various ecological conditions; often cultivated.

8. Life Form: Phanerophytes

9. Economic Importance: Fruits are eaten locally, also medicinally important; stems are tapped for sweet tap, source of jiggery, leaves are used for making brooms and basketry; stem cut into pieces and used as fuel; mature fruits are eaten.

10. Probable Progenitor of:

11. DNA

C- value **Methodology**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=36 [3,31,37]

14. Gametic chromosome number(s): n=18 [3,31]

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes): Presence of one heteromorphic pair of chromosomes (AA_1) in somatic cells of male plant and one heteromorphic pair during meiosis [31]

Image file

16. Ploidy level:

Image file

17. Agametoploidy

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Somatic cells with abnormal chromosomes number 2n= 19 [31], 2n=28 [31], 2n=30 [31]

21. Somatic chromosomes:

Karyotype: Majority nearly metacentric to metacentric chromosomes [31]

Chromosome size: Very small [31]

NOR chromosome(s): 4 NOR [31]

Degree of asymmetry:

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 18 II [3,31]

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; Translocations etc):