

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-165.001.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Datisca cannabina* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Thladianthadubia* Bunge, *Cannabina laevis* Moench, *Datisca glabra* Stokes, *Datisca nepalensis* D. Don

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Fabids
- Order: Cucurbitales Juss. ex Bercht. & J. Presl
- Family: Datiscaceae Dumort.
- Genus: *Datisca* L.
- Species: *D. cannabina* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Caliciflorae
- Cohors: Passiflorales Juss. ex Bercht. & J. Presl
- Ordo: Datiscaceae Dumort.
- Genus: *Datisca* L.
- Species: *D. cannabina* L.

4. Distribution:

Global: Afghanistan, Cyprus, East Aegean Island, India, Iran, Iraq, Kirgizstan, Kriti, Lebanon-Syria, Nepal, Pakistan, Palestine, Tadzhikistan, Transcaucasus, Turkey, Uzbekistan, Vietnam

India: Western Himalaya

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb; Temperate and subtropical Himalaya

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

4C (4.59±0.03 pg)¹

Methodology

Flow cytometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s): n= 11^{2,3,4,5}

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes): Unequal pair of chromosomes in addition to autosome pairs which is assumed to be a sex chromosome complex of an XY-type³

Image file

16. Ploidy level: Diploid^{3,5}

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:

Karyotype

Chromosome size

NOR chromosome(s)

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 11II³

Image file

27. Chromosome distribution at anaphase I: Normal⁴

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis;

Pollen stainability; Translocations etc): 100% pollen fertility⁵