

Species Datasheet

Datasheet No. A-416.049.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Trachyspermum roxburghianum* (DC.) H. Wolff

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Apium involucratum* Roxb., *Athamanta roxburghiana* Wall., *Carum involucratum* (Roxb.) Kuntze, *C. roxburghianum* Waring, *C. stictocarpum* C.B.Clarke, *Pimpinella involucrata* (Roxb.) Wight & Arn., *Ptychotis involucrata* (Roxb.) Royle, *Trachyspermum stictocarpum* (C.B.Clarke) H. Wolff

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Asterids
- Clade: Campanulids
- Order: Apiales Nakai
- Family: Apiaceae Lindl.
- Genus: *Trachyspermum* Link
- Species: *T. roxburghianum* (DC.) H. Wolff

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Calyciflorae
- Cohors: Umbellales
- Ordo: Umbelliferae Juss.
- Genus: *Trachyspermum* Link
- Species: *T. roxburghianum* (DC.) H. Wolff

4. Distribution:

Global: Bangladesh, India, Laos, Myanmar, Sri Lanka, Vietnam

India: Native of to Western Ghats, but cultivated throughout India

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb, Cultivated, occasional along waysides, forest edges, village surrounding as an escape

8. Life Form:

9. Economic Importance: Fruits are used in curries and as a carminative

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s): $n=11$ ¹¹

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

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):

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

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):