

Species Datasheet

Datasheet No. A-416.021.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Foeniculum vulgare* Mill.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Foeniculum vulgare* var. *capillaceum* Burnat, *F. vulgare* subsp. *capillaceum* (Burnat) Holmboe, *F. vulgare* var. *dulce* (Mill.) Batt. & Trab., *F. vulgare* var. *inodorum* Maire, *F. vulgare* subsp. *piperitum* (C. Presl) Bég., *F. vulgare* var. *piperitum* (C. Presl) Ball, *F. vulgare* var. *sativum* C. Presl, *F. vulgare* subsp. *sativum* (C. Presl) Janch. ex Holub, *F. vulgare* subsp. *subinodorum* (Maire, Weiller & Wilczek) Ibn Tattou, *F. vulgare* var. *subinodorum* (Maire, Weiller & Wilczek) Maire.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Asterids
- Clade: Campanulids
- Order: Apiales Nakai
- Family: Apiaceae Lindl.
- Genus: *Foeniculum* Mill.
- Species: *F. vulgare* Mill.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Calyciflorae
- Cohors: Umbellales
- Ordo: Umbelliferae Juss.
- Genus: *Foeniculum* Mill.
- Species: *F. vulgare* Mill.

4. Distribution:

Global: Afghanistan, Albania, Algeria, Azores, Balears, Bulgaria, Canary Island, Cape Verde, Corse, East Aegean Island, Egypt, Eritrea, Ethiopia, France, Greece, Gulf States, Iran, Italy, Kriti, Libya, Madeira, Morocco, Nepal, North Caucasus, Pakistan, Portugal, Sardegna, Saudi Arabia, Sicilia, Sinai, Spain, Tadzhikistan, Transcaucasus, Tunisia, Turkey, Turkey-in-Europe, Turkmenistan, Uzbekistan, Yemen, Yugoslavia, Amsterdam-St. Paul Is, Angola, Argentina Northeast, Argentina Northwest, Argentina South, Austria, Bahamas, Bangladesh, Belgium, Bermuda, Brazil, California, Cape Provinces, Central European Rus, Chile, China, Colombia, Cuba, Czechoslovakia, Djibouti, Dominican Republic, Ecuador, El Salvador, Fiji, Germany, Great Britain, Guatemala, Gulf of Guinea Island, Hainan, Haiti, Hungary, Illinois, India, Inner Mongolia, Ireland, Jamaica, Juan Fernández Island, Kazakhstan, Kentucky, Kenya, Korea, Krym, KwaZulu-Natal, Leeward Island, Manchuria, Mauritius, Mexico Northwest, Mozambique, Myanmar, Netherlands, New Mexico, New Zealand North, New Zealand South, Niue, Norfolk Island, Northern Provinces, Paraguay, Peru, Poland, Puerto Rico, Qinghai, Rodrigues, Romania, Réunion, Society Island, Somalia, South European Russia,

St.Helena, Sudan, Switzerland, Tanzania, Tennessee, Tibet, Ukraine, Uruguay, Vietnam, Windward Island, Xinjiang, Zimbabwe

India: Karnataka, Madhya Pradesh, Punjab, Tamil Nadu, Tripura, West Bengal

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb

8. Life Form:

9. Economic Importance: Used as household remedy

10. Probable Progenitor of:

11. DNA

C-value

Methodology

2C (18.17 – 18.93 pg)¹

Microspectrophotometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=22^{1,2,3,4,5,6,7}$

14. Gametic chromosome number(s): $n=11^{8,9}$

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: Majority nearly metacentric to metacentric chromosomes¹; majority metacentric or sub-telocentric chromosomes⁶

Chromosome size: 1.6-2.6 μm⁶; 2.83-4.38 μ¹

NOR chromosome(s): 2NOR⁶; 8NOR¹; 10NOR¹

Degree of asymmetry

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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^{10,11,12}

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