

# Final Species Datasheet     JamU+CalU+SUK-Phase I

Datasheet No. A-416.004.001  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Anethum graveolens* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Anethum arvense* Salisb., *Anethum graveolens* var. *anatolicum* N.F.Koren', *Anethum graveolens* subsp. *australe* N.F.Koren', *Anethum graveolens* var. *copiosum* N.F.Koren', *Anethum graveolens* var. *nanum* N.F.Koren', *Anethum graveolens* var. *parvifolium* N.F.Koren', *Anethum graveolens* subsp. *sowa* (Roxb.) N.F.Koren', *Anethum graveolens* var. *tenerifrons* N.F.Koren', *Anethum sowa* Roxb., *Angelica graveolens* (L.) Steud., *Ferula graveolens* (L.) Spreng., *Ferula marathrophylla* Walp., *Pastinaca anethum* (Roth) Spreng., *Pastinaca graveolens* (L.) Bernh., *Peucedanum anethum* (Roth) Jess., *Peucedanum sowa* (Roxb.) Kurz, *Selinum anethum* Roth, *Selinum graveolens* (L.) Vest

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Asterids
- Clade: Campanulids
- Order: Apiales Nakai
- Family: Apiaceae Lindl.
- Genus: *Anethum* L.
- Species: *A. graveolens* L.

### Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Calyciflorae
- Cohors: Umbellales
- Ordo: Umbelliferae Juss.
- Genus: *Anethum* L.
- Species: *A. graveolens* L.

## 4. Distribution:

**Global:** Algeria, Chad, Gulf States, Kazakhstan, Libya, Morocco, Oman, Saudi Arabia, Tunisia, Turkey, Alabama, Albania, Altay, Andaman Island, Angola, Argentina Northeast, Austria, Azores, Bahamas, Balears, Baltic States, Bangladesh, Belarus, Belgium, Brazil South, Brazil Southeast, Bulgaria, Cameroon, Canary Island, Cape Verde, Cayman Island, Central European Rus, China, Cuba, Czechoslovakia, Dominican Republic, East Aegean Island, East European Russia, Ecuador, Eritrea, Ethiopia, France, Ghana, Greece, Guatemala, Haiti, Hungary, Illinois, India, Italy, Jamaica, Kentucky, Kenya, Kriti, Krym, Laos, Leeward Island, Madeira, Mozambique, Netherlands, Nicobar Island, Niger, Nigeria, Northwest European R, Peru, Portugal, Puerto Rico, Romania, Sicilia, Somalia, South European Russia, Spain, Sudan, Switzerland, Tadjikistan, Tanzania, Trinidad-Tobago, Ukraine, Uzbekistan, Vietnam, Windward Island, Yugoslavia

**India:** Cultivated throughout India

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

**6. Threat Status:**

IUCN

BSI

**7. Habit and Habitat:**Herb

**8. Life Form:**Phanerophyte

**9. Economic Importance:**

**10. Probable Progenitor of:**

**11. DNA**

C-value

Methodology

**12. Basic chromosome number(s):**

**13. Zygotic chromosome number(s):** $2n=22^{1,2,3,4,5,6}$ ;  $2n=44^1$

**14. Gametic chromosome number(s):** $n=11^7$

**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 sub-telocentric chromosomes<sup>6</sup>

**Chromosome size:** 1.5-3.0 $\mu\text{m}$ <sup>6</sup>

**NOR chromosome(s):** 4NOR<sup>6</sup>

**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<sup>8,9,10</sup>**

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