

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-416.003.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Ammi majus* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Aethusa ammi* Spreng., *Ammi boeberi* Hoeckert, *A. broussonetii* DC., *A. cicutifolium* Willd. ex Schult., *A. elatum* Salisb., *A. glaucifolium* L., *A. intermedium* DC., *A. pauciradiatum* Hochst. ex A. Rich., *A. pumilum* (Brot.) DC., *A. topalii* Beauverd, *A. pinnatum* Ruiz & Pav. ex Urban, *Apium ammi-maius* Crantz, *A. candollei* M. Hiroe, *A. elatum* (Willk.) Calest., *A. petraeum* Crantz, *Carum majus* (L.) Koso-Pol., *Cuminum aethiopicum* Royle, *C. regium* Royle, *Daucus parsae* M. Hiroe, *Helosciadium lateriflorum* W.D.J. Koch, *Selinum ammoides* E.H.L. Krause, *Sison lateriflorum* Bertol., *S. majus* Eaton & Wright, *S. pumilum* Brot., *Visnaga major* (L.) J. Vick, *V. vulgaris* Bubani

3. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Albania, Algeria, Azores, Balears, Canary Island, Corse, Cyprus, East Aegean Island, Egypt, France, Greece, Gulf States, Iran, Italy, Kriti, Kuwait, Libya, Madeira, Morocco, Oman, Portugal, Sardegna, Saudi Arabia, Selvagens, Sicilia, Sinai, Spain, Tadzhikistan, Tunisia, Turkey, Turkey-in-Europe, Yemen, Yugoslavia, Alabama, Argentina Northeast, Argentina Northwest, Argentina South, Bahamas, Belgium, Bermuda, Brazil South, California, Cape Provinces, Chile South, Colombia, Cuba, Czechoslovakia, Dominican Republic, El Salvador, Eritrea, Ethiopia, Free State, Guatemala, Haiti, Kenya, KwaZulu-Natal, Mexico Southwest, New Caledonia, New Zealand North, New Zealand South, Northern Provinces, Uruguay

India: Himachal Pradesh, Meghalaya, West Bengal

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

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): $2n=22^{1,2,3,4,5,6,7,8}$

14. Gametic chromosome number(s): $n=11^{3,4,5,8,9,10}$

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 chromosomes⁵

Chromosome size: 2.3-4.1 μ^5

NOR chromosome(s)8NOR⁵

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: 11 bivalents⁵

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; Translocation etc):