

Genus Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-416.016
(Family.Genus)

DBT- Network Programme

1. Genus: *Coriandrum* L.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Asterids
- Clade: Campanulids
- Order: Apiales Nakai
- Family: Apiaceae Lindl.
- Genus: *Coriandrum* L.

Bentham and Hooker (1862)

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

3. Species:

Global: 2

India: 1

4. Taxonomic riddles:

5. Distribution:

Global: Afghanistan, India, Iran, Laos, Lebanon-Syria, Pakistan, Palestine, Saudi Arabia, Sinai, Transcaucasus, Turkey, Algeria, Amur, Angola, Argentina Northeast, Argentina Northwest, Argentina South, Austria, Azores, Baltic States, Bangladesh, Belarus, Belgium, Brazil South, Cambodia, Cameroon, Canary Island, Cape Provinces, Cape Verde, Chad, Cuba, Czechoslovakia, Dominican Republic, Ecuador, Egypt, El Salvador, Eritrea, Ethiopia, Fiji, France, Free State, Germany, Great Britain, Greece, Guatemala, Haiti, Hungary, Illinois, India, Italy, Juan Fernández Island, Kazakhstan, Kenya, Khabarovsk, Korea, Kriti, Krym, KwaZulu-Natal, Libya, Madeira, Mauritius, Mexico Central, Mexico Northwest, Morocco, Mozambique, New Mexico, New Zealand North, New Zealand South, Norfolk Island, Northern Provinces, Paraguay, Peru, Poland, Portugal, Primorye, Puerto Rico, Rodrigues, Romania, Réunion, Sicilia, Somalia, Spain, Sudan, Switzerland, Tadzhikistan, Tanzania, Trinidad-Tobago, Tunisia, Turkey-in-Europe, Turkmenistan, Uganda, Ukraine, Uzbekistan, Vietnam, Yugoslavia, Zimbabwe

India: Throughout India

6. Habit and Habitat: Herb, cultivated

7. Economic Importance:

8. DNA content range:

2C (4.10 – 9.45 pg)^{1,2}

2C (5.08±0.10pg)³

4C (15.051 – 19.111 pg)⁴

Methodology

Feulgen microdensitometry^{1,2}

Flow cytometry³

Feulgen cytophotometry⁴

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=22^{2,4,5,6,7,8,9,10,11}$

11. Gametic chromosome number(s): $n=11^{6,11,12,13}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes): Presence of chromosomes with supernumerary constriction⁶

13. Ploidy level:

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Somatic variants noted with $2n=15$, $2n=24$ and $2n=25$ ⁶

16. Karyograms:^{4,6} **Meiosis:**⁶

17. Banding pattern(s):

18. Physical mapping of chromosomes: GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: DNA level¹⁸

20. Cytogenetic mechanism (s) underlying evolution: Structural changes in chromosome: important role in the speciation of different varieties of this species⁶

21. Linkage map:

22. Any other information: Total number of species with reports = 1/1