

Genus Datasheet

Datasheet No. A-416.032
(Family:Genus)

DBT- Network Programme

1. Genus:*Pimpinella* L.

2. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

3. Species:

Global: 100

India:23

4. Taxonomic riddles:

5. Distribution:

Global:Afghanistan, Albania, Algeria, Altay, Amur, Angola, Austria, Azores, Balears, Baltic States, Bangladesh, Belarus, Belgium, Bulgaria, Burundi, Cameroon, Canary Island, Cape Provinces, Central African Repu, Central European Rus, China South-Central, Chita, Corse, Czechoslovakia, Denmark, East Aegean Island, East European Russia, East Himalaya, Eritrea, Ethiopia, France, Free State, Føroyar, Germany, Great Britain, Greece, Guinea, Gulf of Guinea Island, Gulf States, Hungary, India, Iraq, Ireland, Irkutsk, Italy, Jawa, Kazakhstan, Kenya, Kirgizstan, Krasnoyarsk, Kriti, Krym, KwaZulu-Natal, Lebanon-Syria, Lesotho, Lesser Sunda Island, Libya, Madagascar, Malawi, Mali, Mongolia, Morocco, Mozambique, Myanmar, Nepal, Netherlands, Nigeria, Northern Provinces, Northwest European R, Norway, Oman, Palestine, Poland, Portugal, Primorye, Romania, Sardegna, Saudi Arabia, Sicilia, Sinai, Somalia, South European Russi, Spain, Sudan, Swaziland, Sweden, Switzerland, Tadjikistan, Tanzania, Tibet, Transcaucasus, Tunisia, Turkey, Turkey-in-Europe, Turkmenistan, Uganda, Ukraine, Uzbekistan, West Siberia, Yemen, Yugoslavia, Zambia, Zaïre, Zimbabwe

India: Himalaya, Peninsular India

6. Habit and Habitat:Herb

7.Economic Importance:

8. DNA content range:

Methodology

2C

4C

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=18^{2,8,9,10,11,12,13}$; $2n=20^{1,2,3,15,18}$

11. Gametic chromosome number(s): $n=9^{2,6,7,9,14,15,17}$; $n=10^{3,4}$; $n=11^{5,16}$; $n=22^{19}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):

13. Ploidy level:

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms:⁸ **Meiosis:**^{6,7}

17. Banding pattern(s):

18. Physical mapping of chromosomes:GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: DNA level²⁰

20. Cytogenetic mechanism (s) underlying evolution: Evolution and speciation in the genus level through mutation, chromosomal aberrations or aneuploidy⁶

21. Linkage map:

22. Any other information: Total number of species with reports = 13/23