

Genus Datasheet

Datasheet No. A-403.002

(Family.Genus)

DBT- Network Programme

1. Genus: *Achillea* L.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Asterales Link
- Family: Asteraceae Bercht. & J. Presl
- Genus: *Achillea* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: Compositae Giseke
Genus: *Achillea* L.

3. Species:

Global: 151

India: 4

4. Taxonomic riddles:

5. Distribution:

Global: Argentina, Australia, Bolivia, Brazil, Canada, Caribbean, Chile, China, Colombia, Costa Rica, Ecuador, Europe, Greenland, Guatemala, Honduras, India, Kazakhstan, Mexico, Mongolia, New Zealand, Nicaragua, Pakistan, Russian Federation, South Korea, USA

India: East Himalaya and Northeast India, Kerala, Maharashtra, Tamil Nadu

6. Habit and Habitat: Herb or undershrub. Found in wastelands, forest margins, grasslands on mountain slopes, river valleys.

7. Economic Importance: Medicinal and also grown in gardens as ornamental

8. DNA content range:

Methodology

2C (16.2 pg)²⁹ Flow cytometer

9. Basic chromosome number(s): x=9^{1,9}

10. Zygotic chromosome number(s): $2n=18$ ^{1,9-13,21,27}, $2n=36$ ^{2-9,21,28}, $2n=54$ ^{15-20,21}, $2n=72$ ^{14,21}

11. Gametic chromosome number(s): $n=9$ ^{13,23}, $n=18$ ^{7,22}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ 1 chromosomes):

13. Ploidy level: Diploid ^{1,9-13,21,27}, Tetraploid ^{3-9,21}, Hexaploid ^{15-20,21}, Octaploid ^{14,21}

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

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

16. Karyograms: ^{1,3,9,21} **Meiosis:** ^{7,13,22,23}

17. Banding pattern(s): CMA/DAPI banding ³

18. Physical mapping of chromosomes:GISH:

19. Phylogenetic relationship at:

Chromosomal level

DNA level: ³⁰

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: Chromosome number is not reported in the following taxa:

Achillea squarrosa Aiton