

Species Datasheet

Datasheet No. A-403.012.001
(family.genus.species)

DBT-1

1. Taxon:

Species: *Arctium lappa* L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2.

Synonyms: *Arcionmajus* Bubani, *A. tomentosum* Bubani, *Arctium adhaerens* Gilib., *A. bardana* Willd., *A. chaorum* Klokov, *A. grandiflorum* Desf., *A. lappa* var. *lappa*, *A. lappa* subsp. *lappa*, *A. lappa* subsp. *majus* (Gaertn.) Arenes, *A. leiospermum* Juz. & Ye. V. Serg., *A. majus* (Gaertn.) Bernh., *A. minus* subsp. *nemorosum* (Lej.) Syme, *A. ruderale* Salisb., *A. vulgare* (Hill) Evans, *A. vulgare* (Hill) Druce, *Bardana arctium* Hill, *B. lappa* Hill, *Lappaglabra* Lam., *L. major* Gaertn., *L. nemorosa* (Lej.) Korn. ex Griewank, *L. officinalis* All., *L. vulgaris* Hill, *L. vulgaris* var. *vulgaris*

3. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Afghanistan, Bhutan, Canada, China, India, Japan, Nepal, Pakistan, USA

India: West Himalaya

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb. Found on open hill slopes

8. Life Form: Chamaephytes

9. Economic Importance: Roots medicinal

10. Probable Progenitor of:

11. DNA

C-value Methodology

2C(1.99 pg)¹Flow cytometer

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 32^{2,3,4}$, $2n = 36^{5-11}$

14. Gametic chromosome number(s):

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, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

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

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