

Species Datasheet

Datasheet No. A-140.001.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Arachisherzogii* Krapov., W.C. Greg. & C.E. Simpson

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Arachis* L.
- Species: *A.herzogii* Krapov.,
W.C. Greg. & C.E. Simpson

Bentham and Hooker(1862)

Kingdom: Plantae
Division:Phanerogamia
Class: Dicotyledons
Subclass:Polypetalae
Series: Calyciflorae
Cohors: RosalesBercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: PapilionaceaeGiseke
Genus: *Arachis* L.
Species: *A.herzogii*Krapov., W.C. Greg.
& C.E. Simpson

4. Distribution:

Global: South America

India: Experimental stations

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herbaceous, Tropical regions

8. Life Form: Perennial

9. Economic Importance:

10. Probable Progenitor of:

11.DNA)

C-value

Methodology

2C (2.95 pg)²

Flow cytometry

2C (4.21pg)⁸⁸

Feulgencytophotodensitometry

12.Basic chromosome number(s): $x = 10^2, 5, 88, 119$

13. Zygotic chromosome number(s): $2n = 20^2, 5, 88, 112, 119$

14. Gametic chromosome number(s): $n = 10^{112}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level:Diploid^{2, 5, 88, 112, 119}

Image file

17.Agametoploidy:

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

19.Genomic formula: $AA^2, 119$

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

21.Somatic chromosomes:^{2, 106, 119}

Karyotype Majority metacentric/submetacentricchromosomes

Chromosome sizeSmall

NOR chromosome(s)2

Degree of asymmetrySymmetrical

Image file

22. Banding pattern(s):Heterochromatic DAPI⁺ bands^{2, 106}

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization: 18S - 5.8S - 26S and 5S ribosomal gene families ¹⁰⁶

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis 10 II¹¹²

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.): Pollen stainability: 98.28 %¹¹²