

Species Datasheet

Datasheet No. A-140.001.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

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

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

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. benensis*Krapov.,

W.C.Greg. &C.E.Simpson

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. benensis*Krapov.,
W.C.Greg. &C.E.Simpson

4. Distribution:

Global:South America

India:Experimental stations

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Erectherb, Tropical regions

8.Life Form:Annual

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

2C (2.91 pg)² Flow cytometry

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

13. Zygotic chromosome number(s): $2n = 20^{2,5,14,112}$

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^{2,5,14,112}

Image file

17.Agametoploidy:

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

19.Genomic formula:BB³⁴, AA¹⁴,FF^{2,100}

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

21.Somatic chromosomes:2,14,100

Karyotype Majoritymetacentric/ submetacentricchromosomes

Chromosome sizeSmall

NOR chromosome(s)2

Degree of asymmetrySymmetrical

Image file

22. Banding pattern(s):DAPI ⁺bands^{2, 14,100}

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^{14,100}

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis10 II,8 II + 1 IV¹¹²

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level³⁴

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