

# Species Datasheet

Datasheet No. A-140.001.030  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Arachis magna* 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: Rosales Bercht. & J. Presl

Ordo: Leguminosae Juss.

Subordo: Papilionaceae Giseke

Genus: *Arachis* L.

Species: *A. magna* Krapov.,

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

## 3. Systematic Position:

### APG IV (2016)

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

## 4. Distribution:

**Global:** Brazil, Bolivia

**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:**Annual

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value**

**Methodology**

2C (3.22pg)<sup>2</sup>

Flow cytometry

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

**13. Zygotic chromosome number(s):** $2n=20^{2,5,11,26,27}$

**14. Gametic chromosome number(s):**

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

Image file

**16.Ploidy level:**Diploid<sup>2,5,11,26,27</sup>

Image file

**17.Agametoploidy:**

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

**19.Genomic formula:** $BB^{2,26,34,51,100}$

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

**21.Somatic chromosomes:**<sup>2,100</sup>

**Karyotype** Majority metacentric / submetacentric chromosomes

**Chromosome size**Small

**NOR chromosome(s)**2

**Degree of asymmetry**Symmetrical

Image file

**22. Banding pattern(s):**

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 <sup>100</sup>

Image file

**24. Genomic in situ hybridization:**

Image file

**25. Linkage map:**<sup>75 , 85</sup>

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**<sup>26 , 27 , 34 , 51 , 64</sup>

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