

# Species Datasheet

Datasheet No. A-140.001.025  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Arachis ipaensis* Krapov. & W.C. Greg

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: Papilionaceae Giseke

Genus: *Arachis* L.

Species: *A. ipaensis* Krapov. & W.C. Greg

## 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. ipaensis* Krapov. & W.C. Greg

## 4. Distribution:

**Global:** Bolivia

**India:** Experimental stations

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

## 6. Threat Status:

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Herbaceous,Tropicalregions

**8.Life Form:**Annual

**9.Economic Importance:**

**10. Probable Progenitor of:** *A.hypogaea*and *A.monticola*<sup>14,17,18,19,30,37,91,102,103,105</sup>

**11.DNA**

**C-value**

**Methodology**

2C (3.19 pg)<sup>2</sup>Flow Cytometry

2C (5.66pg)<sup>87</sup> Feulgenmicrodensitometry

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

**13. Zygotic chromosome number(s):** $2n = 20^{2,5,7,14,17,18,19,22,23,26,37,87}$

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

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

Image file

**16.Ploidy level:**Diploid<sup>2,5,7,14,17,18,19,22,23,26,37,87</sup>

Image file

**17.Agametoploidy:**

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

**19.Genomic formula:**AA<sup>14, 17,18,87</sup> , BB<sup>2,19,22,26,37,99,100</sup>

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

**21.Somatic chromosomes:**2,7,14,19,37,100

**Karyotype**Majoritymetacentric /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>14,19,100</sup>

Image file

**24. Genomic in situ hybridization:**<sup>17</sup>

Image file

**25. Linkage map:**<sup>75,82,85</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>23,26,32,38,42,51,57</sup>

**29. Any other information (Apoixis; Inversion; Male sterility; Pollen grain mitosis;**

**Pollen stainability; Translocation etc):** Pollen stainability: 91 %<sup>36</sup>