

# Species Datasheet

Datasheet No. A-140.001.005  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Arachiscruziana* Krapov., W.C. Gregory & 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: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Arachis* L.
- Species: *A. cruziana*  
Krapov., W.C. Gregory &  
C.E. Simpson

### 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. cruziana* Krapov., W.C. Gregory &  
C.E. Simpson

## 4. Distribution:

Global: Bolivia

India: Experimental stations

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**

2C (2.59 pg)<sup>2</sup>

**Methodology**

Flow cytometry

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

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

**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, 119</sup>

Image file

**17. Agametoploidy:**

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

**19. Genomic formula:** BB<sup>2, 51, 119</sup>, KK<sup>100</sup>

**20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):**

**21. Somatic chromosomes:** <sup>2, 100, 119</sup>

**Karyotype** Majority metacentric /submetacentric chromosomes

**Chromosome size** Small

**NOR chromosome(s)** 2

**Degree of asymmetry** Symmetrical

Image file

**22. Banding pattern(s):** Heterochromatic DAPI<sup>+</sup> bands<sup>2, 100</sup>

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:**

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>51</sup>**

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