

# Species Datasheet

Datasheet No. A-140.001.018  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species:

Subspecies:

Variety *Arachishypogaeasubsp. fastigiata* var. *peruviana* Krapov. & W.C. Gregory

Cultivar:

Hybrid:

Image file:

2. Synonyms: *Arachishypogaeasubsp. hypogaea* var. *peruviana*

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Brumfiel & Spongberg
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Arachis* L.
- Species: *A. hypogaea* L.
- Subspecies: *A. hypogaea* subsp. *fastigiata* Waldron.
- Variety: *A. hypogaea* subsp. *fastigiata* var. *peruviana* Krapov. & W.C. Gregory

### 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. hypogaea* L.  
Subspecies: *A. hypogaea* subsp. *fastigiata* Waldron.  
Variety: *A. hypogaea* subsp. *fastigiata* var. *peruviana* Krapov. & W.C. Gregory

## 4. Distribution:

**Global:** Americas, Indonesia, China up to Madagascar

**India:** Cultivated

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

## 6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herbaceous, Tropical regions

**8. Life Form:** Annual

**9. Economic Importance:** Major crop for high quality vegetable oil, human food, feedstock, ground cover value

**10. Probable Progenitor of:**

**11. DNA**

**C-value**                      **Methodology**

**12. Basic chromosome number(s):**  $x = 10^{5-11,89}$

**13. Zygotic chromosome number(s):**  $2n = 40^{11,18,19,22,89}$

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

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

Image file

**16. Ploidy level:** Tetraploid<sup>11,18,19,22,89</sup>

Image file

**17. Agametoploidy:**

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

**19. Genomic formula:** AABB<sup>22</sup>

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

**21. Somatic chromosomes:** <sup>19, 89</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>19</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>19</sup>

Image file

### **24. Genomic in situ hybridization:<sup>22</sup>**

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>32, 51, 57, 60, 90</sup>

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