

# Species Datasheet

Datasheet No. A-140.001.015  
(family.genus.species)

DBT- Network Programme

## 1.Taxon:

Species:

Subspecies: *Arachis hypogaea* subsp. *fastigiata* Waldron.

Variety

Cultivar

Hybrid

Image file

## 2. Synonyms:

## 3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Arachis* L.
- Species: *A. hypogaea* L.
- Subspecies: *A. hypogaea* subsp. *fastigiata* Waldron.

Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Dicotyledons  
Subclass: Polypetalae  
Series: Calyciflorae  
Cohorts: Rosales  
Ordo: Leguminosae Juss.  
Subordo: Papilionaceae Giseke  
Genus: *Arachis* L.  
Species: *A. hypogaea* L.  
Subspecies: *A. hypogaea* subsp. *fastigiata* Waldron.

## 4.Distribution:

Global: Bolivia

India: Cultivated

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**

2C (10.97 pg)<sup>87</sup>      Feulgenmicrodensitometry

**12.Basic chromosome number(s):** $x = 10^7$

**13. Zygotic chromosome number(s):** $2n = 40^{7,18,19,27,87}$

**14. Gametic chromosome number(s):** $n = 20^7$

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

Image file

**16.Ploidy level:**Tetraploid<sup>7,18,19,27,87</sup>

Image file

**17.Agametoploidy:**

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

**19.Genomic formula:**AABB<sup>87</sup>

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

**21.Somatic chromosomes:**<sup>7, 19</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** 20 II ,Also III and IV<sup>7</sup>

Image file

## **27. Chromosome distribution at anaphase I:**

## **28. Genetic diversity:**

**Chromosomal level**

Image file

**DNA level**<sup>27,32,51,57</sup>

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