

# Species Datasheet

DBT- Network Programme

Datasheet No. A-140.001.020  
(family.genus.species)

## 1. Taxon:

Species

Subspecies: *Arachis hypogaea* subsp. *hypogaea*

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. hypogaea* L.

Subspecies: *A. hypogaea* subsp. *hypogaea*

## 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. hypogaea* L.
- Subspecies: *A. hypogaea* subsp. *hypogaea*

## 4. Distribution:

**Global:** Americas

**India:** Cultivated

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

## 6. Threat Status:

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Herbaceous, Tropical region

**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 (11.27 pg)<sup>87</sup>

Feulgenmicrodensitometry

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

**13. Zygotic chromosome number(s):** $2n=40^{7,19,22,27,87}$

**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>7,19,22,27,87</sup>

Image file

**17.Agametoploidy:**

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

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

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

**21.Somatic chromosomes:**<sup>7, 19</sup>

**Karyotype** Majoritymetacentric/submetacentricchromosomes

**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.):**