

Species Datasheet

Datasheet No. A-140.001.016
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:

Subspecies

Variety: *Arachishypogaeasubsp.fastigiata* var. *aequatoriana* Krapov. & W.C. Gregory

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.
- Variety: *A. hypogaea* subsp. *fastigiata* var. *aequatoriana* 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. hypogaeasubsp.fastigiata* Waldron.
Variety: *A. hypogaea* subsp. *fastigiata* var. *aequatoriana* Krapov. & W.C. Gregory

Krapov. & W.C. Gregory

4. Distribution:

Global: Americas

India: Experimental stations

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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	Methodology
2C (11.08pg) ⁸⁸	Feulgen cytophotodensitometry

12. Basic chromosome number(s): $x = 10$ ^{5- 11, 88, 89}

13. Zygotic chromosome number(s): $2n = 40$ ^{11, 19, 22, 88, 89}

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Tetraploid^{11, 19, 22, 88, 89}

Image file

17. Agamete ploidy:

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

19. Genomic formula: AABB²²

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

21. Somatic chromosomes: ^{19, 89}

Karyotype Majority metacentric / submetacentric chromosomes

Chromosome size Small

NOR chromosome(s) 2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s):Heterochromatic DAPI⁺ bands ¹⁹

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 ¹⁹

Image file

24. Genomic in situ hybridization:²²

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^{51, 57, 60, 90}

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