

Species Datasheet

Datasheet No. A-140.001.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Arachis correntina* (Burkart) Krapov. & W. C. Greg.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Arachis villosa* var. *correntina* Burkart

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. correntina* (Burkart) Krapov. and 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. correntina* (Burkart) Krapov. and W. C. Gregory

4. Distribution:

Global: South America

India: Experimental stations

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Erect herb, Tropical regions

8. Life Form: Perennial

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology

2C (2.85 pg)²

Flow cytometry

2C (5.83 pg)¹²

Feulgencytophotodensitometry

2C(6.42 pg)⁸⁷

Feulgenmicrodensitometry

12. Basic chromosome number(s): $x = 10^{2,5,7}$

13. Zygotic chromosome number(s): $2n = 20^{2,5,6,7,17,18,19,22,27,87,97}$

14. Gametic chromosome number(s): $n = 10^7$

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

Image file

16. Ploidy level: Diploid ^{2,5,6,7,17,18,19,22,27,87,97}

Image file

17. Agametoploidy:

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

19. Genomic formula: AA ^{2,17,18,19,22,87,99}

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

21. Somatic chromosomes: ^{2,6,7,19,97,106}

Karyotype Majority metacentric/submetacentric chromosomes

Chromosome size Small

NOR chromosome(s) 2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s): C - banding⁶, Heterochromatic DAPI⁺ bands^{2, 19, 106}, Centromeric

DAPI + bands¹⁷

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization: 18S - 5.8 S - 26S and 5S ribosomal gene families ^{19,106}

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis^{10 II⁷}

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{27,38,42,63}

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