

Species Datasheet

Datasheet No. A-140.002.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vignaadenantha* (G. Mey.) Marechal, Mascherpa & Stainier

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file:

2. Synonyms: *Dolichosoleraceum* Schum., *Phaseolusadenanthus* G. Mey., *P. adenanthus* G. Mey. var. *caeduorus* (Benth.) Hassl., *P. adenanthus* G. Mey. var. *radicans* (Benth.) Hassl., *P. alatus* Roxb., *P. amarus* L., *P. amoenus* Macfad., *P. barbulatus* Benth., *P. brevipes* Benth., *P. caeduum* Benth., *P. caracalla* L., *P. cirrosus* Kunth, *P. cuernavacanus* Rose, *P. cumingii* Benth., *P. latifolius* Benth., *P. macfadyeni* Steud., *P. occidentalis* Rose, *P. radicans* Benth., *P. rostratus* Wall., *P. senegalensis* Guill. & Perr., *P. subtortus* Benth., *P. surinamensis* Miq., *P. truxillensis* Kunth, *Vignacaracalla* (L.) Verdc., *V. gentryi* (Standl.) Stainier & F. Horvat

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Vigna* Savi
- Species: *V. adenantha* (G. F. Meyer)
Marechal, Mascherpa & Stainier

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: *Vigna* Savi
Species: *V. adenantha* (G. F. Meyer)
Marechal, Mascherpa & Stainier

4. Distribution:

Global: India, Native of South Africa, South America

India: Andaman Islands, Bihar, Madhya Pradesh, Orissa, Tamil Nadu, West Bengal

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Twinning or trailing herb; found along roadsides in waste places,

bushland

8. Life Form: Therophytes

9. Economic Importance: Young, immature, green pods eaten mainly as an emergency food in times of shortage. Mature seeds and tuberous roots - cooked. An occasional cultivated crop in parts of Africa, but viewed more as an emergency food for times of scarcity in India.

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s): $x=11$ ¹

13. Zygotic chromosome number(s): $2n=22$ ^{1,11}

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Diploid^{1,11}

Image file

17. Agametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:^{1,11}

Karyotype Majority metacentric chromosomes

Chromosome size Small

NOR chromosome(s) 2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

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

DNA level

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