

Species Datasheet

Datasheet No. A-028.005.002
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Arisaema amurense* Maxim.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Arisaema amurense* var. *amurense*, *A. amurense* f. *denticulatum* Makino, *A. amurense* var. *denticulatum* Engl., *A. amurense* var. *magnidens* N.E.Br., *A. amurense* f. *purpureum* (Nakai) Kitag., *A. amurense* var. *purpureum* Nakai, *A. amurense* var. *robustum* Engl., *A. amurense* subsp. *robustum* (Engl.) H.Ohashi & J.Murata, *A. amurense* var. *serratum* Nakai, *A. amurense* f. *serratum* (Nakai) Kitag., *A. amurense* f. *violaceum* (Engl.) Y.S.Kim & S.C.Ko, *A. amurense* var. *violaceum* Engl., *A. komarovii* Tzvelev, *A. robustum* (Engl.) Nakai, *A. robustum* f. *abense* Sugim., *A. robustum* var. *furusei* Sugim., *A. robustum* var. *purpureum* Nakai, *A. robustum* var. *sachalinense* Miyabe & Kudo, *A. robustum* f. *variegatum* Y.N.Lee

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Arisaema* Mart.
- Species: *A. amurense* Maxim.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Arisaema* Mart.
Species: *A. amurense* Maxim.

4. Distribution:

Global: China, Mongolia, Manchuria, Korea, Russian Far East Khabarovsk, Primorye, Sakhalin

India: North East India

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

6. Threat Status:

IUCN: Not yet assessed

BSI:

7. Habit and Habitat: Perennial cormatous herbs, grows on forests floor.

8. Life Form: Tuberous Geophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=13^6$
 $x=14^6$

13. Zygotic chromosome number(s): $2n=26^3$
 $2n=28^{4,5}$
 $2n=39^3$
 $2n=48^4$
 $2n=52^{1,3,6}$
 $2n=56^{4,5,6,7,8,9,11,12,13,14,15,16}$
 $2n=56-59^{10}$
 $2n=66-68^{10}$
 $2n=70^{17}$
 $2n=112^7$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Tetraploid⁹

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:

Karyotype: Majority submetacentric chromosomes⁶

Chromosome size: Small to medium⁹, Small to large⁶

NOR chromosome(s) : 4NOR^{6,9}, 8NOR⁹

Degree of asymmetry: Symmetrical⁶

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

Image file

DNA level¹⁸

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