

Species Datasheet

Datasheet No. A-027.001.002
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Acorus gramineus* Aiton

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Acorus gramineus* var. *japonica* M.Hotta, *A. gramineus* var. *macrospadiceus* Yamam., *A. gramineus* var. *pusillus* (Siebold) Engl., *A. humilis* Salisb., *A. macrospadiceus* (Yamam.) F.N.Wei & Y.K.Li, *A. pusillus* Siebold, *A. xiangyeus* Z.Y.Zhu

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Acorales Mart.
- Family: Acoraceae Martinov
- Genus: *Acorus* L.
- Species: *A. gramineus* Aiton

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledones

Series: Nudiflorae

Ordo: Aroideae Arn.

Genus: *Acorus* L.

Species: *A. gramineus* Aiton

4. Distribution:

Global: Asia, China, Hainan, Mongolia, Tibet, Japan, Korea, Taiwan, India, Cambodia, Laos, Myanmar, Thailand, Vietnam, Malesia, Philippines

India: Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland, Sikkim, West Bengal

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb. The species grows on the margins of ponds and on moist rocky stream banks in forest.

8. Life Form: Rhizomatous geophytes

9. Economic Importance: Used for medicinal purposes, and as an ornamental.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

- 13. Zygotic chromosome number(s):** $2n=18$ ³
 $2n=22$ ^{4,36,38}
 $2n=24$ ^{4,5,9,19,39,51,52}

14. Gametic chromosome number(s): $n=12$ ^{41,53,54}

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

Image file

16. Ploidy level: Diploid ⁵

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

Chromosome size

NOR chromosome(s)

Degree of asymmetry:

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 level ^{46,55}

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