

# Species Datasheet

Datasheet No. A-030.001.004  
(family.genus.species)

DBT- Ne

## 1. Taxon:

Species:

Subspecies: *Alisma plantago-aquatica* subsp. *orientale* (Sam.) Sam

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Alisma coreanum* H.Lév., *A. flavum* Thunb., *A. jianshiensis* J.K.Chen, X.Z.Sun & H.Q.Wang, *A. orientale* (Sam.) Juz., *A. plantago-aquatica* var. *orientale* Sam.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Alismataceae Vent.
- Genus: *Alisma* L.
- Species: *A. plantago-aquatica* L.
- Subspecies: *A. plantago-aquatica* subsp. *orientale* (Sam.) Sam

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Apocarpae  
Ordo: Alismaceae  
Genus: *Alisma* L.  
Species: *A. plantago-aquatica* L.  
Subspecies: *A. plantago-aquatica* subsp. *orientale* (Sam.) Sam

## 4. Distribution:

**Global:** China, Japan, Korea, Kirgizstan, India, Nepal, Myanmar, Mongolia, Siberia, and Vietnam

**India:** Assam, East Himalaya

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

## 6. Threat Status:

IUCN: Not evaluated

BSI:

**7. Habit and Habitat:** Herb; Temperate Mixed Forest.

**8. Life Form:** Hydrophytes

**9. Economic Importance:** Traditional Chinese medicine

## 10. Probable Progenitor of:

11. DNA

C-value      Methodology

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

13. Zygotic chromosome number(s):  $2n=14^{9,31,63,65,71}$

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

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

Image file

16. Ploidy level: Diploid<sup>9,65</sup>

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 metacentric chromosomes <sup>65</sup>

**Chromosome size:** Small to large <sup>65</sup>

**NOR chromosome(s):** 2NOR <sup>65</sup>

**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:** <sup>73</sup>

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