

Species Datasheet

Datasheet No. A-416.023.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Hydrocotyle javanica* Thunb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Hydrocotyle javanica* var. *chinensis* Dunn ex Shan & S.L. Liou, *H. javanica* var. *hookeri* C.B. Clarke, *H. javanica* var. *podantha* (Molk.) C.B. Clarke, *H. nepalensis* Hook., *H. podantha* Molk.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Asterids
- Clade: Campanulids
- Order: Apiales Nakai
- Family: Apiaceae Lindl.
- Genus: *Hydrocotyle* Tourn. ex L.
- Species: *H. javanica* Thunb.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Calyciflorae
- Cohors: Umbellales
- Ordo: Umbelliferae Juss.
- Genus: *Hydrocotyle* Tourn. ex L.
- Species: *H. javanica* Thunb.

4. Distribution:

Global: Fiji, India, Jawa, Korea, Myanmar, Solomon Island, Sri Lanka, Vietnam

India: Arunachal Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal

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

6. Threat Status:

IUCN: Least Concern

BSI

7. Habit and Habitat: Herb; On hills above 1300m, in shady and moist places like shola floors, stream banks and rotting wood

8. Life Form:

9. Economic Importance:Used as a blood purifier, indigestion, dysentery and nervousness.

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=18^1$; $2n=24^2$; $2n=36^3$; $2n=72^{4,5}$; $2n=96^{2,6}$

14. Gametic chromosome number(s): $n=36^4$; $n=46^7$; $n=84^8$

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

Image file

16. Ploidy level: Octoploid⁶

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 or sub-telocentric chromosomes¹

Chromosome size: 1.6-2.6 μ m¹

NOR chromosome(s): 2NOR¹

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

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