

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-416.009.005
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Bupleurum candollei* Wall.ex DC.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Asterids
- Clade: Campanulids
- Order: Apiales Nakai
- Family: Apiaceae Lindl.
- Genus: *Bupleurum* L.
- Species: *B. candollei* Wall.ex DC.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Calyciflorae
- Cohors: Umbellales
- Ordo: Umbelliferae Juss.
- Genus: *Bupleurum* L.
- Species: *B. candollei* Wall.ex DC.

4. Distribution:

Global: China, India, Myanmar, Nepal, Pakistan, Tibet

India: Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttar Pradesh

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb; mixed forests on shady slopes, open forests, mountain slopes, grassy places

8. Life Form: Hemicryptophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

4C (11.572±0.003 pg)²

Methodology

Feulgen cytophoto-densitometry²

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=14⁸; 2n=16^{2,3}

14. Gametic chromosome number(s): n=6⁷; n=8⁴

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

Image file

16. Ploidy level: Diploid⁷

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 chromosomes²

Chromosome size: 33.48±0.03 μm²

NOR chromosome(s): 6NOR²

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): Pollen fertility = 100%⁷