

Species Datasheet

Datasheet No. A-140.018.001
(Family.Genus.Species)

DBT- Network Programme

1. Taxon:

Species: *Parochetus communis* Buch.-Ham. ex D. Don

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Cosmius arepens* Alef., *Parochetus maculate* R.Br., *P. maculata* Bennett, *P. major* D. Don, *P. oxalidifolius* Royle

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Genus: *Parochetus* Buch.-Ham. ex D. Don
- Species: *P. communis* Buch.-Ham. ex D. Don

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: Papilionaceae Giseke
Genus: *Parochetus* Buch.-Ham. ex D. Don
Species: *P. communis* Buch.-Ham. ex D. Don

4. Distribution:

Global: Africa, Asia and Pacific Ocean

India: Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Karnataka, Manipur, Meghalaya, Punjab, Sikkim, Tamil Nadu, Uttar Pradesh and West Bengal

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. **Habit and Habitat:** Prostrate herbs; Thickets, woodland margins, grasslands, roadsides

8. **Life Form:** Chamaephytes

9. **Economic Importance:**

10. **Probable Progenitor of:**

11.DNA

C-value Methodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16$ ^{1,2,3}

14. Gametic chromosome number(s): $n=8$ ⁴

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

Image file

16.Ploidy level:

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: $8n$ ⁴

Image file

27. Chromosome distribution at anaphase I: 8:8⁴

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apoixis; Inversion; Male sterility; Pollen grain mitosis;

Pollen stainability; Translocation etc.): Pollen fertility (98-99%)⁴