Cleome gynandra

gynandra Cleome (Sanskrit: Ajagandha, तलिवन; अजगनधाः; Marathi:Tilavan, Kenyan (Kisii):Chinsaga;(Luo):Dek, is a species of Cleome known by the common name Shona cabbage or African cabbage. It is an annual wildflower native to Africa but has become widespread in many tropical and sub-tropical parts of the world. It is an erect, branching plant generally between 25 cm and 60 cm tall. Its sparse leaves are each made up of 3-5 oval-shaped leaflets. The flowers are white to rose pink. The seed is a brown 1.5mm diameter sphere. The leaves are edible.

1 Uses

The leaves form an important part of diets in Southern Africa, and nutritional analysis has found it to be high in certain nutrients including amino acids, vitamins and minerals.^[2] In Telugu, *C. gynandra* is termed as Vaminta or Vayinta. In India, many tribes cook the leaves of this herb like any other leaf curry.

2 Ecology

Cleome gynandra is considered an invasive weed in many places in the U.S.^[3] and elsewhere in the Pacific.^[4]

3 Biochemistry

Cleome gynandra uses NAD-malic enzyme type C4 photosynthesis and has the characteristic traits associated with this including changes in "leaf biochemistry, cell biology and development". [5] Cleome gynandra is closely related to Arabidopsis thaliana (a C3 photosynthetic plant) and therefore offers comparison with this well studied model plant.

4 References

- [1] "The Plant List: A Working List of All Plant Species". Retrieved January 26, 2014.
- [2] Cleome gynandra L. entry in Plantzafrica database
- [3] USDA-NRCS: Invasive and noxious weeds

- [4] Cleome gynandra: Plant threats to Pacific ecosystems (Pacific Island Ecosystems at Risk project (PIER))
- [5] Marshall, D.M., Muhaidat, R., Brown, N.J., Liu, Z., Stanley, S., Griffiths, H.G., Sage, R.F., Hibberd, J.M. (2007) *Cleome*, a genus closely related to *Arabidopsis*, contains species spanning a developmental progression from C3 to C4 photosynthesis. *Plant Journal*, 51: 886-896

5 External links

- Crops for the Future: African cabbage (*Cleome gynandra*)
- Cleome gynandra in West African plants A Photo Guide.

6 Text and image sources, contributors, and licenses

6.1 Text

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