

Planting *Trichosanthes kirilowii* under photovoltaic panels

Does *Trichosanthes kirilowii* Maxim have in vitro root tuberization?

Zhao FL, Wang R, Xue JP, Duan YB (2018) Efficient callus-mediated regeneration and in vitro root tuberization in *Trichosanthes kirilowii* Maxim, a medicinal plant. *In Vitro Cell Dev Biol Plant* 54:621-625
This study was funded by the Scientific Research Project of Hubei Education Department of China (No. B2018024).

What is *Trichosanthes kirilowii* rosthornii?

Trichosanthes kirilowii Maxim. and *Trichosanthes rosthornii* Harms are two species of the genus *Trichosanthes*, family Cucurbitaceae. The genus *Trichosanthes* includes 84 plant varieties distributed worldwide, primarily in eastern and southern Asia, including China, North Korea, Japan and Oceania (Huang et al., 2009) (Fig. 1).

Is *T. kirilowii* Triarch or tetrarch?

For the in vitro plants of *T. kirilowii* grown in 1/4 Hoagland nutrient solution, cross sections of the fine adventitious roots showed that the xylem was triarch or tetrarch with alternating phloem groups (Fig. 3 a-i).

How many flavonoids from *Trichosanthes kirilowii* Maxim?

Three flavonoids from *Trichosanthes kirilowii* Maxim. J. Yan, X. Gou, G. Xu, X. Tang, J. Zhou, X. He, C. Li *Med. J. Wuhan. Univ.*, 12 (1991), pp. 129 - 131

Can hydroponics help *T. kirilowii* adapt to acclimatization?

This study clearly demonstrates that hydroponics is an alternative for the tissue cultured plants of *T. kirilowii* to adapt to great environmental changes during acclimatization.

Can *T. kirilowii* be reproduced by seeds?

In general, *T. kirilowii* can be reproduced by seeds and vegetatively propagated via root tubers. However, this species is dioecious and about only 30% of germinated seedlings were female plants (Chen et al. 2019).

The broad goals of this study were (i) to evaluate the taxonomy of *Trichosanthes* using plastid phylogenomic data and (ii) provide molecular markers specific for *T. kirilowii* var. *kirilowii* and *T. ...*

Trichosanthes kirilowii japonica is a PERENNIAL CLIMBER growing to 6 m (19ft 8in) at a fast rate. See above for USDA hardiness. It is hardy to UK zone 9 and is frost tender. It is in flower from July to September. The species is dioecious (individual flowers are either male or female, but only one sex is to be found on any one plant so both male and female plants must be grown if ...

Trichosanthin (TCS) from *Trichosanthes kirilowii* Maximowicz (*T. kirilowii*) can be used to treat

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choriocarcinoma. In this work, we established a novel system to produce TCS in crown gall tissues of *T. kirilowii* infected by *Agrobacterium tumefaciens* C58 (*A. tumefaciens*). In the crown gall tissues, a nopaline synthase (NOS) gene of *A. tumefaciens* was identified by ...

Trichosanthes Growing and Care Guide Common Names: Snake Gourd, Pointed Gourd, Japanese Gourd, Potol, Chinese Cucumber, Serpent Cucumber, Parwel, Kirilowii. Family: Cucurbitaceae. Life Cycle: Half ...

Trichosanthes kirilowii Maxim? ?????????????????? ??????,????????????? ??? ???? ??????????????

Plant database entry for Chinese Cucumber (*Trichosanthes kirilowii*) with 17 images, 2 comments, and 25 data details. Learning Library ... under running water, took the vegetable brush and firmly pushed the seeds and pulp down into the strainer with a side-to-side motion, causing the pulp to extrude out of the strainer. ...

The tuber of this plant is known in Mandarin as ti?n hu? f?n (Chinese: ???) traditional Chinese medicine it is said to drain heat and generate fluids, clear and drain lung heat, transform phlegm, and moisten lung dryness, and resolve toxicity and expel pus. [3] The fruit of the plant, also referred to in Mandarin as gu?lóu (Chinese: ??), is said to clear heat and transform ...

Trichosanthes kirilowii is a flowering plant in the family Cucurbitaceae. It is found particularly in Henan, Shandong, Hebei, Shanxi, and Shaanxi. ... In the immature fruit, chlorophyll in the cells under the epidermis causes the rind to be green, but, upon maturity, it turns yellow-white the fruit is a false berry or pepo Many seeds

Biofertilizer Ning shield was composed of different strains of plant growth promotion bacteria. In this study, the plant growth promotion and root-knot nematode disease control potential on *Trichosanthes kirilowii* in the field were evaluated. The application of Ning shield significantly reduced the diseases severity caused by *Meloidogyne incognita*, the ...

Trichosanthes_kirilowii is a PERENNIAL CLIMBER growing to 6 m (19ft 8in) at a fast rate. See above for USDA hardiness. It is hardy to UK zone 9 and is frost tender. It is in flower from July to September, and the seeds ripen from September to October. The species is dioecious (individual flowers are either male or female, but only one sex is to be found on any one plant so both ...

In vitro culture of *Trichosanthes kirilowii* - proliferation and elongation of shoots and production of roots: a shoots formed through regeneration from the shoot apical meristem; excised shoot (small picture); b shoots formed through regeneration from nodal segments; c proliferated and ...

Trichosanthes kirilowii Maxim is a perennial climbing herbaceous plant of the Cucurbitaceae family, which is valued for its numerous medicinal functions Lo et al., 2017), abundant nutritional ...

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4 ???· The broad goals of this study were (i) to evaluate the taxonomy of *Trichosanthes* using plastid phylogenomic data and (ii) provide molecular markers specific for *T. kirilowii* var. ...

Trichosanthes kirilowii: Maxim is a perennial climbing herbaceous plant of the Cucurbitaceae family, which is ... rare and threatened plant species (Sarasan . et al., 2006). The potential of . in vitro. propagation of . *T.* ... cultured under controlled conditions, 15 min. The prepared nodal stems were inserted into the

The mitochondrial genome of *T. kirilowii* exhibits a complex multi-branched structure. By employing Nanopore data to exclude repetitive regions, we successfully obtained two primary circular contigs with a combined length of 352,749 bp: chromosome 1 spanning 245,700 bp, and chromosome 2 spanning 107,049 bp ().The overall GC content was determined to be 45.39%, ...

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