Growing Scutellaria baicalensis under photovoltaic panels

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Where are the suitable areas for growing S baicalensis?
The results demonstrated that the ecologically suitable areas for growing S. baicalensis were mostly located in the Northern hemisphere, and the suitable areas in the United States, China, and Russia accounted for 19.25%, 18.66%, and 13.15% of the total area worldwide, respectively.

What is Scutellaria baicalensis?
[Google Scholar] Zhao, Q.; Chen, X.Y.; Martin, C. Scutellaria baicalensis, the golden herb from the garden of Chinese medicinal plants. Sci. Bull. 2016, 61, 1391-1398. [Google Scholar] [CrossRef]

Why is S baicalensis hard to grow?
This may be due to the low precipitation in these areas, which makes it difficult for them to sprout in the spring. According to our investigation, some areas of Shandong and Gansu Provinces use cutting propagation techniques to cultivate S. baicalensis. Fig. 4. The ultimate climate-suitable cultivation areas for S. baicalensis

Is S baicalensis cultivated in China?
However, because the wild resources of S. baicalensis were abundant until a few years ago, China only recently commenced this programme (Yuan et al., 2010). The herb has been cultivated successfully in some districts, but a systematic study on the selection of suitable areas for cultivation is still lacking.

Based on the Geodetector and Habitat Suitability Index (HSI) method, we proposed an assessment model to identify the critical environmental variable (s) affecting the distribution of suitable...

We revealed the major environmental factors affecting the geographical distribution and quality control of S. baicalensis. We predicted the cultivation areas where were suitable for both the ...

In this study, we explored the optimal light condition suitable for enhancing Scutellaria baicalensis "s yield and quality, aiming to provide scientific reference for the exploitation and utilization of medicinal ...

Considering the ability of jasmonic acid (JA) to improve plant stress tolerance, the hypothesis that JA pretreatment could alleviate the adverse effects of UV-B on S. baicalensis was tested in this study ...

We measured the responses of growth, morphology, biomass allocation, physiological traits, and secon-dary metabolites of S. baicalensis to different light qualities.

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Methods To address it, we conducted a light-quality manipulation experiment on Scutellaria baicalensis Georgi, a widespread understorey medicinal species, with light-emitting ...

This paper explored the ecologically suitable areas for growing Scutellaria baicalensis using Geographic Information System for Global Medicinal Plants (GMPGIS), to figure out the resource distribution of ...

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