Scutellaria baicalensis under photovoltaic panels

Does UV-A radiation elicit biochemical responses in postharvest Scutellaria baicalensis roots?
Ultraviolet A (UV-A) radiation is the main component of solar radiation and can elicit a wide range of biochemical responses in plants. In this study, the effects of UV-A radiation on the flavonoid content, composition, and bioactivity in postharvest Scutellaria baicalensis roots were investigated.

What is the phytochemistry and biological activity of Scutellaria baicalensis?
the phytochemistry and biological activity of Scutellaria baicalensis. hytochemistryScutellaria baicalensis is a plant rich in secondary plant metabolites. These can be classified into four types: free flavonoids,flavonoid glycosides,phenylethanoid glyco-sides nd other small molecules such as steroids,diterpenes,amides and phenolic

Does Scutellaria baicalensis have a therapeutic potential?
The increasing global interest in herbal remedies, along with the documented efficacy of Scutellaria baicalensis in numerous pharmacological applications, has led to a surge in research efforts aimed at elucidating the plant's therapeutic potential [6, 7].

Which flavonoids are present in S baicalensis roots treated with UV-A radiation?
Based on UPLC-MS/MS qualitative analysis,we further used HPLC analysis to quantify the contents of the four main flavonoids (baicalin,baicalein,wogonoside,and wogonin) in S. baicalensis roots treated with postharvest UV-A radiation for 5 d.

What are Scutellaria baicalensis polysaccharides?
Scutellaria baicalensis polysaccharides have antioxidant,antiviral,immune-regulating,and other properties. According to research,Scutellaria baicalensis mostly included the water-soluble polysaccharides WSPS'-1,WSPS'-2,and WSPS'-3,which were made up of glucose,galactose,and arabinose.

Does Scutellaria baicalensis extract oxidize cytochrome P450 enzymes?
Kim BR, Kim DH, Park R, Kwon KB, Ryu DG, Kim YC, et al. Effect of an extract of the root of Scutellaria baicalensis and its flavonoids on aflatoxin B1 oxidizing cytochrome P450 enzymes. Planta Med. 2001;67:396-9.

Scutellaria baicalensis Georgi (SBG) is a perennial herb of the Labiatae family which is used as a major traditional herbal medicine [1] is distributed all over the world and also known as Huang-Qin in China [2].SBG was first published in Shennong Materia Medica Classic, and included in China Pharmacopoeia [3] s roots are often used as medicine in China and ...

Therefore, the purpose of this study was to investigate the changes in the composition and content of

flavonoids in S. baicalensis aerial parts under UV-A treatment, ...

Scutellaria baicalensis Georgi is a famous medicinal plant with its dried roots having been used as a traditional Chinese medicinal for more than 2000 years. Although its genome sequence has previously been published and molecular biology methods have been used to study this species, no suitable internal reference genes have been investigated for ...

Scutellaria baicalensis is a traditional Chinese medicinal plant that has long been grown in Hubei Province. However, increasing average annual temperatures in the region have made plants unsuitable for medicinal use. Two flavones, baicalin and baicalein, are the major active ingredients of S. baicalensis. We demonstrated that protracted heat ...

Scutellaria baicalensis Georgi is widely distributed in China and East Asian countries (Zhao et al., 2016a).S. baicalensis roots are listed as a traditional bulk medicinal material, and its aerial parts are widely drunk as herbal tea in the folks (Makino et al., 2008, Shen et al., 2020, Wang et al., 2018). However, a modern pharmacological study has shown that S. ...

Scutellaria baicalensis Georgi is a species of flowering plant in the Lamiaceae family (Fig. 1a) is indigenous to several East Asian countries and the Russian Federation and has been cultivated in many European countries 1., 2. inese people have used the dried root of this medicinal plant for more than 2000 years as a traditional medicine known as Huang-Qin ...

Scutellaria baicalensis polysaccharides have antioxidant, antiviral, immune-regulating, and other properties. According to research, Scutellaria baicalensis mostly included ...

Scutellaria baicalensis Georgi. is a perennial herb in the Lamiaceae family, and its roots are used to treat heat and dampness (in traditional Chinese medicine) for detoxification, to promote hemostasis, and as a tocolytic (Zhao et al., 2016). It is widely distributed in the arid and semiarid areas of China, Russia, Mongolia, Europe and Japan (Shang et al., 2010).

Introduction. The plants of genus Scutellaria L. (Lamiaceae) are perennial herbs with around 360 species in the world. Many of these species have medicinal uses (Cantor et al. Citation 2009; Shang et al. Citation 2010; Paton et al. Citation 2016).Among them, the roots of Scutellaria baicalensis Georgi are used in China as Huang-Qin (Scutellariae Radix), one of the ...

One of the most significant transcription factors in plants, WRKYs, are crucial for plant growth and stress response. In this study, we analyzed the physicochemical properties, evolutionary relationships, conservation structure, and expression of the WRKY gene family in S. baicalensis. The WRKY family has highly conserved structural domains, which have been classified into ...

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Scutellaria baicalensis (SB) has been traditionally used to combat a variety of conditions ranging from ischemic heart disease to cancer. The protective effects of SB are due ...

Scutellaria baicalensis (Latin name: Scutellaria baicalensis Georgi), a perennial herb in Labiatae, uses its roots as medicine and mainly contains flavonoids, volatile oil, trace elements, etc. [4], of which flavonoids are the most effective components and the main components of Scutellaria baicalensis, and baicalin, baicalein, wogonoside and wogonin are ...

Scutellariae Radix (SR), the root of Scutellaria baicalensis Georgi (SG), is a traditional herbal medicine commonly used in clinic, especially as a complementary treatment for COVID-19 in prescriptions of Chinese medicine in recent years. It is widely distributed in China, Russia, Korea, etc., and recorded in the Chinese Pharmacopoeia, British Pharmacopoeia and ...

evolved pathway for biosynthesis of specific, bioactive 4 ?-deoxyflavones in the roots of S. baicalensis. INTRODUCTION Scutellaria baicalensis Georgi is a species in the family Lamiaceae commonly used in traditional Chinese medicine, where it is known as Huang-Qin (Fig. 1, A and B). Huang-Qin has been used for more

Photosynthesis restraint and respiration enhancement resulted in a total biomass loss for S. baicalensis under UV-B radiation or JA treatment, and the loss was caused by stem and leaf ...

Interactions between plants and endophyte can influence the secondary metabolism in host plants. Scutellaria baicalensis Georgi, is widely used as traditional Chinese medicine and cultivated extensively in China. Until now, the influence of endophytes on secondary metabolism of S. baicalensis is still unclear. To address this issue, non-targeted metabolomics ...

(Color online) The medicinal plant Scutellaria baicalensis, known as Huang-Qin.a Scutellaria baicalensis Georgi plant.b The dried root of S. baicalensis used in traditional Chinese medicine.c A hand-drawn figure of S. baicalensis in Bencao Gangmu (Compendium of Materia Medica) by Li Shizhen. Clinical applications. Scutellaria baicalensis has been used as a medicine in several ...

The medicinal plant Scutellaria baicalensis Georgi is widely distributed in temperate areas and tropical mountains of China, Russia, Mongolia, Korea, Japan and other countries (Shang et al., 2010).The dried root of S. baicalensis has a wide range of pharmacological activities, such as antibacterial, antiviral, anti-inflammatory, anticancer, hepatoprotective, and neuroprotective ...

Seed priming has become a practical pre-sowing strategy to deal with abiotic stresses. This study aims to explore the effects of polyethylene glycol (PEG) priming on seed germination and seedling growth of Scutellaria baicalensis Georgi under salt stress. Regardless of seed priming, salt stress significantly inhibited the seed germination and seedling growth of S. ...

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Scutellaria baicalensis, known also as Huang-Qin is a traditional Chinese plant used in medicine for at least 2000 years. The plant is widely distributed in Japan, Korea,

Scutellaria baicalensis is called Huang-Qin in Chinese, which means golden (precious) herb. It belongs to the perennial herb family Lamiaceae and is commonly used in traditional medicine. S. baicalensis is distributed in East Asia, Europe and North America, and it is used for adjuvant therapy of various diseases (Wen et al. 2022; Zhao et al. 2016) has been officially listed in ...

Panel Date: September 16-17, 2019 . ... and then extracted under thermal reflux for 1 h, twice. 6 ... Scutellaria Baicalensis Root Extract and Scutellaria Baicalensis Sprout Extract are used in products that come in contact with mucous membranes during product use (maximum ingredient use concentrations of 0.0045% (lipstick) and 0.0002% (bath ...

Enclosed is a draft tentative report on 4 Scutellaria baicalensis-derived ingredients (scutel032020rep).Report comments that were received from the Council prior to the September 2019 Panel meeting (scutel032020pcpc) have been addressed.At the September 2019 Panel meeting, an Insufficient Data Announcement (IDA) with the following data requests on this

leaves of S. baicalensis seedlings were grown under different LED lights and harvested after two and four weeks, and analyzed using high-performance liquid chromatography and gas ...

DOI: 10.17221/61/2024-pps Corpus ID: 272413240; Identification, classification, and transcriptional analysis of TCP gene family from Scutellaria baicalensis and SbTCP genes response under MeJA and SA treatments

Scutellaria baicalensis Georgi is an annual herb from the Scutellaria genus that has been extensively used as a traditional medicine for over 2000 years in China.

In our research, a novel polysaccharide (named SSP-3a) with uniform molecular weight was extracted from Scutellaria baicalensis stem-leaf. The structural analysis revealed that SSP-3a was an acidic polysaccharide with a heavy average molecular weight of 1.83 × 10 5 Da. By HPLC, the primary constituents of SSP-3a were mannose (11.60 %), glucuronic acid (42.99 ...

Canopy spectral composition significantly affects growth and functional traits of understory plants. In this study, we explored the optimal light condition suitable for enhancing Scutellaria ...

Among the intensively studied plants is Scutellaria, a wide-spread genus commonly used in traditional Asiatic medicine. Scutellaria baicalensis belongs to the Lamiac-eae family. It is a ...

Status: Draft Report for Panel Review . Release Date: August 22, 2019. Panel Date: September 16-17, 2019 .

Scutellaria baicalensis under photovoltaic panels

The 2019 Cosmetic Ingredient Review Expert Panel members are: Chair, Wilma F. Bergfeld, M.D., F.A.C.P.; Donald V. ... Scutellaria Baicalensis Root Extract 94279-99-9 Yes 6/3 92/3 No Yes No No No No No No No No No No Scutellaria Baicalensis ...

Scutellaria baicalensis is a perennial plant of the Lamiaceae family, which has been cultivated worldwide for its therapeutic properties (Shang et al., 2010).The dried root of Scutellaria baicalensis is also a popular functional food because it has a positive effect on health and reduces the risk of diseases beyond basic nutrition (Carovi?-StanKo, PeteK, Grdi?a, ...

Scutellaria baicalensis Georgi, which is a very important traditional Chinese herb, has been used clinically to clear heat and expel dampness in China for centuries. Several studies have reported that the chemical components in the root extracts of this herb, especially flavonoids, are effective against many diseases (Chung et al., 1995; Gao et al., 2001; Lin and ...

In this study, the effects of UV-A radiation on the flavonoid content, composition, and bioactivity in postharvest Scutellaria baicalensis roots were investigated. The total flavonoid content in S. baicalensis roots under postharvest UV-A radiation increased in a time ...