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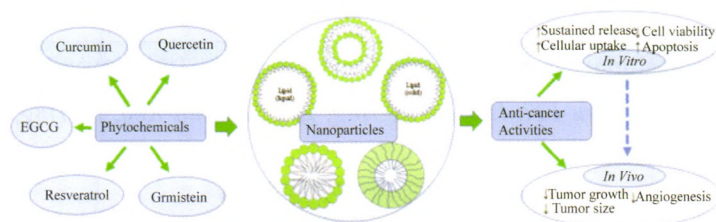


Science Press

·Review·

Biocompatible and biodegradable nanoparticles for enhancement of anti-cancer activities of phytochemicals 641-652

LI Chuan, ZHANG Jia, ZU Yu-Jiao, NIE Shu-Fang, CAO Jun, WANG Qian, NIE Shao-Ping, DENG Ze-Yuan, XIE Ming-Yong, WANG Shu*

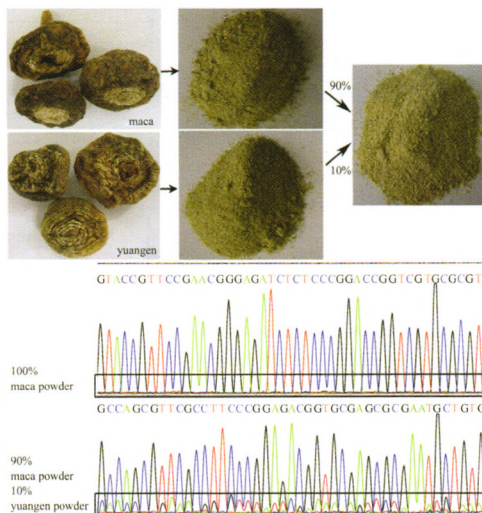


·Research articles·

Identification of maca (*Lepidium meyenii* Walp.) and its adulterants by a DNA-barcoding approach based on the ITS sequence 653-659

CHEN Jin-Jin, ZHAO Qing-Sheng, LIU Yi-Lan, ZHA Sheng-Hua, ZHAO Bing*

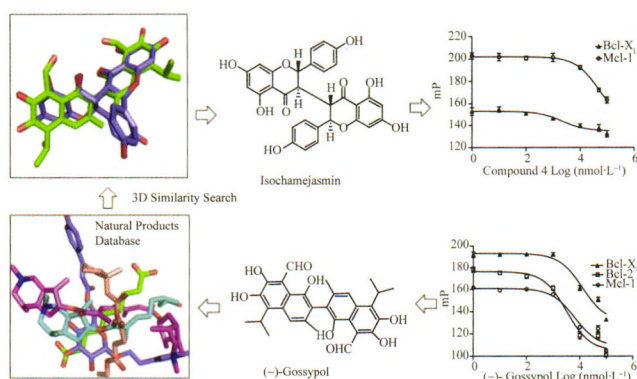
Maca (*Lepidium meyenii* Walp.) is an herbaceous plant that has been used as both food and folk medicine. The ITS (internal transcribed spacer) sequence of maca was consistent in all 43 maca samples and unique when compared with its adulterants. Therefore, the DNA-barcoding approach based on the ITS sequence can be used for the molecular identification of maca and its adulterants.



Isochamaejasmin induces apoptosis in leukemia cells through inhibiting Bcl-2 family proteins 660-666

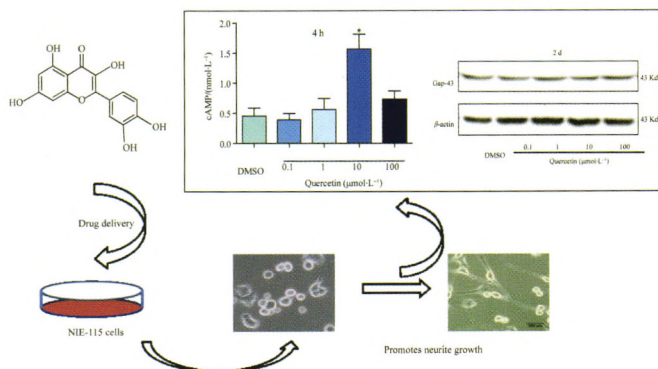
ZHANG Shou-De, SHAN Lei, LI Wei, LI Hong-Lin*, ZHANG Wei-Dong*

Isochamaejasmin was found to show similar bioactivity against Bcl-2 family proteins to the reference Bcl-2 ligand (-)-gossypol through 3D similarity search.

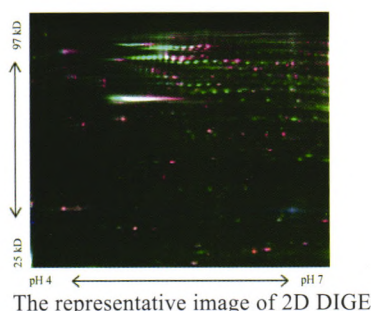


CHEN Ming-Ming, YIN Zhi-Qi, ZHANG Lu-Yong*, LIAO Hong*

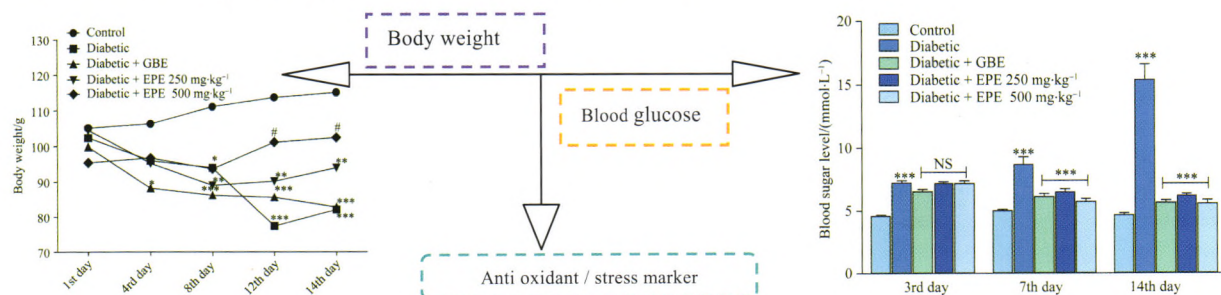
In vitro study suggested that quercetin could effectively promote N1E-115 cells neurite growth in a concentration dependent manner, but had no effect to the numbers of cell with neurite, and that its mechanisms might be through intracellular cAMP elevation, change in the transcription factors, and finally up-regulation of the Gap-43 expression.



LU Jin-Jian*, LU De-Zhao, CHEN Yu-Fei, DONG Ya-Ting, ZHANG Jun-Ren, LI Ting, TANG Zheng-Hai, YANG Zhen

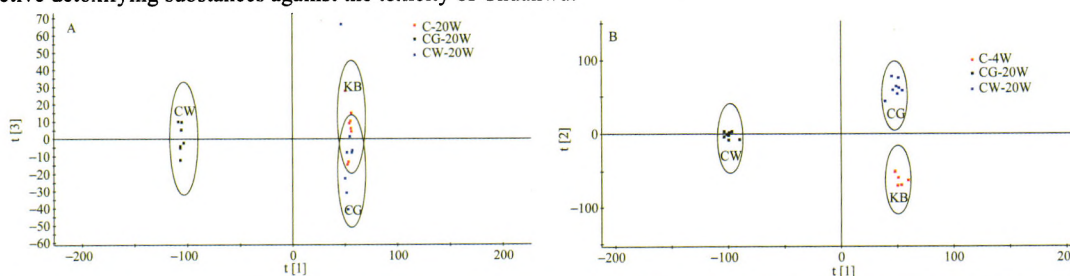


Salanee Kandandapani, Ashok K. Balaraman, Haja N. Ahamed*



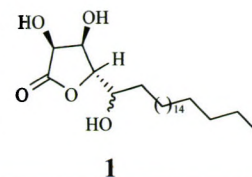
DONG Hui, YAN Guang-Li, HAN Ying, SUN Hui*, ZHANG Ai-Hua, LI Xian-Na, WANG Xi-Jun*

UPLC-Q-TOF/MS-based metabolomics was used to explore the toxicity mechanisms of traditional Chinese medicine Chuanwu and the detoxification mechanisms of Gancao, Baishao, and Ganjiang. Of note, the levels of the toxicity biomarkers were modulated to the normal ranges by the compatibility drugs, Gancao, Baishao, and Ganjiang, indicating that the three compatibility drugs could be the effective detoxifying substances against the toxicity of Chuanwu.



SUN Jing, HUO Hui-Xia, HUANG Zheng, ZHANG Jing, LI Jun*, TU Peng-Fei*

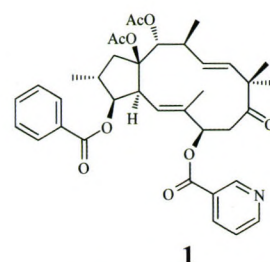
A new γ -alkylated- γ -butyrolactone, melongenolide A (1), along with nine known compounds were obtained, in which, (+)-syringaresinol, kaempferol-3-O-(2'',6''-di-O-p-trans-coumaroyl)- β -glucoside, and arjunolic acid showed potent inhibitory effects on nitric oxide production in lipopolysaccharide-induced RAW 264.7 macrophages, with IC₅₀ values being 5.62 ± 0.86, 11.47 ± 0.98, and 27.75 ± 1.26 $\mu\text{mol}\cdot\text{L}^{-1}$, respectively.

Structure and antibacterial property of a new diterpenoid from *Euphorbia helioscopia*

704-706

GENG Di*, YI Li-Tao, SHI Yao, MIN Zhi-Da

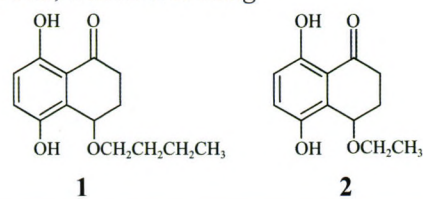
Compound 1 showed significant anti-microbial activity against *Streptococcus mutans* (MIC 3.9 $\mu\text{g}\cdot\text{mL}^{-1}$) and *Actinomyces viscosus* (MIC 3.9 $\mu\text{g}\cdot\text{mL}^{-1}$).

Identification of new naphthalenones from *Juglans mandshurica* and evaluation of their anticancer activities

707-710

GUO Li-Na, ZHANG Rui, GUO Xue-Ying, CUI Tao, DONG Wei, HUO Jin-Hai, WANG Wei-Ming*

Compound 1 showed anti-tumor activity against gastric cancer BGC-823 cells, with the IC₅₀ of 125.89 $\mu\text{g}\cdot\text{mL}^{-1}$.

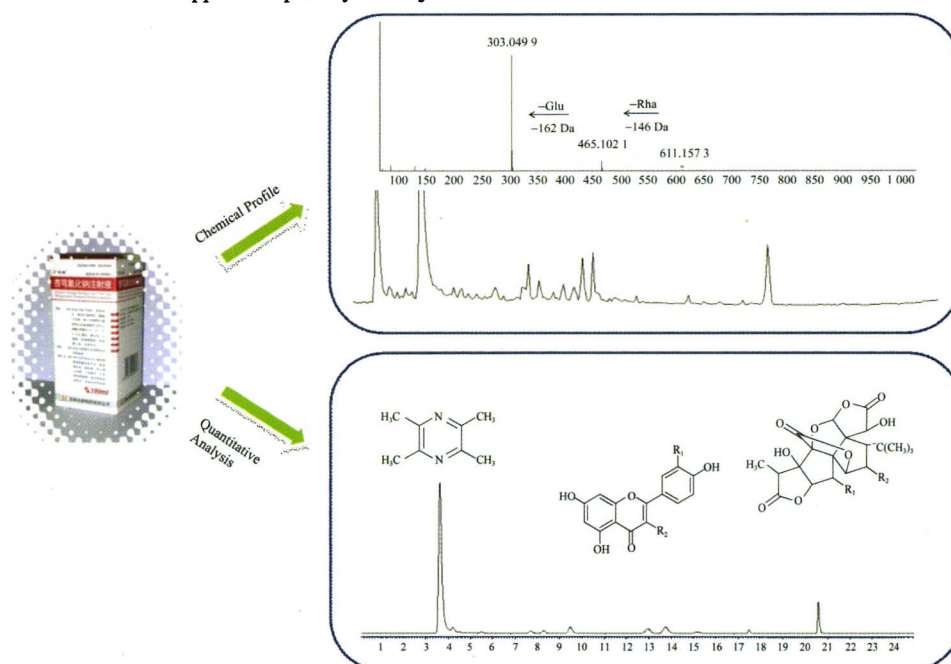


Comprehensive analysis of chemical constituents in Xingxiong injection by high performance liquid chromatography coupled with mass spectrometry

711-720

GUO Long, DOU Li-Li, DUAN Li, LIU Ke, BI Zhi-Ming, LI Ping*, LIU E-Hu*

An HPLC-QTOF-MS method was applied to comprehensive analysis of constituents in Xingxiong injection. According to the fragmentation rules and previous reports, thirty ginkgo flavonoids, four ginkgo terpene lactones and one alkaloid were identified. An HPLC-QQQ MS method was then applied to quantify ten major constituents.





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Aims and Scopes

The Chinese Journal of Natural Medicines (CJNM) is devoted to communications among pharmaceutical and medicinal plant scientists who are interested in the advancement of the botanical, chemical, and biological sciences in support of the use of natural medicines in health care, in particular, traditional Chinese medicines (TCM). CJNM aims to cover a broad spectrum of original research papers and review articles on natural medicines or their products from all over the world, including those from TCM.

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- Pharmacokinetics and Clinical Efficacy
- DNA-based Botanical Authentication
- Medicinal Plant Resource Investigations

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