



Chinese Journal of Natural Medicines

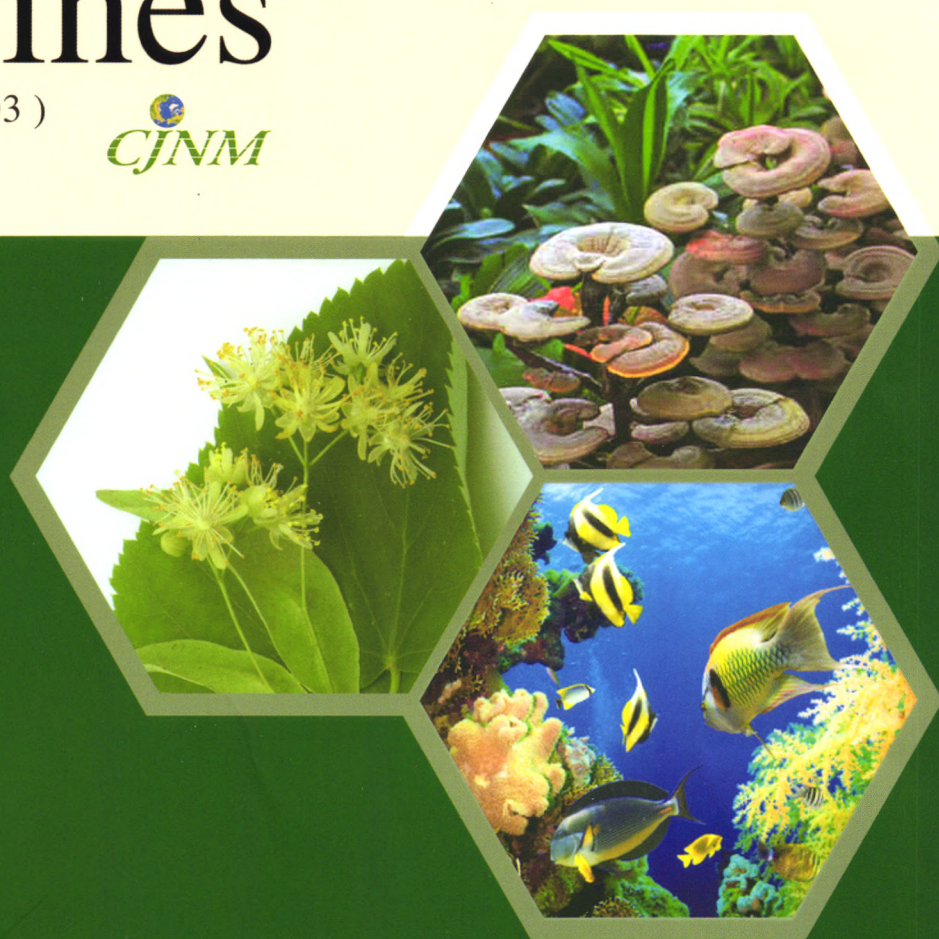
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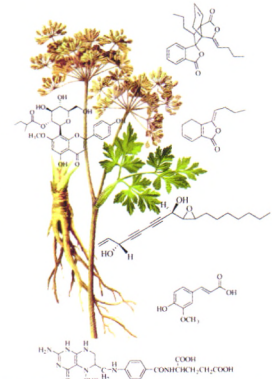
Science Press

Phytochemical progress made in investigations of *Angelica sinensis* (Oliv.) Diels

241-249

MA Jian-Ping*, GUO Zhi-Bing, JIN Ling, LI Ying-Dong

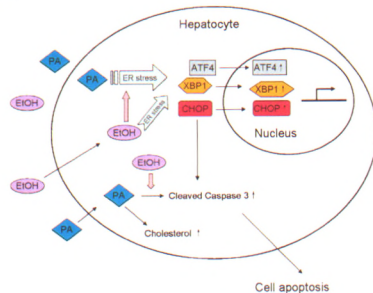
Dried root of *Angelica sinensis* is one of the most important crude drugs in traditional Chinese medicines, and has been used commonly for many diseases. The various magic effects of different medicinal parts from the plant are mainly due to its diverse chemical composition. Since the 1970s, 165 chemical constituents, including phthalides, phenylpropanoids, terpenoids and essential oils, aromatic compounds, alkaloids



Ethanol promotes saturated fatty acid-induced hepatotoxicity through endoplasmic reticulum (ER) stress response

250-256

YI Hong-Wei*, MA Yu-Xiang, WANG Xiao-Ning, WANG Cui-Fen, LU Jian, CAO Wei, WU Xu-Dong*

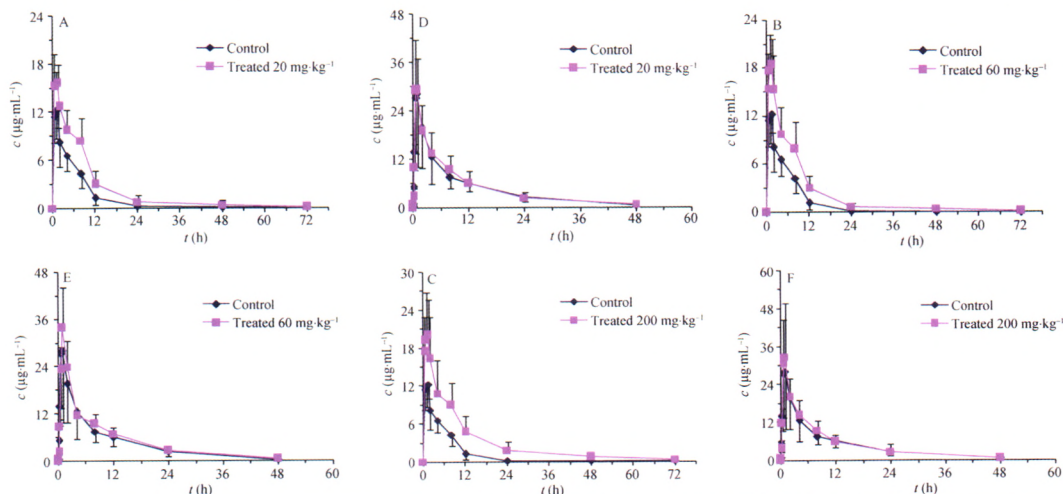


Pre-treatment with puerarin affects pharmacokinetics of warfarin, but not clopidogrel, in experimental rats

257-263

LIU An-Chang, ZHAO Li-Xia, YU Shu-Wen, LOU Hong-Xiang*

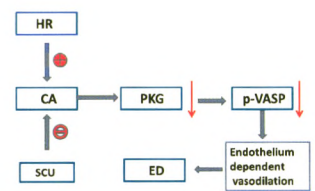
The results showed that rats treated with puerarin at all the test doses of 20, 60 and 200 mg·kg⁻¹ were found to affect the pharmacokinetics of warfarin, but not clopidogrel, suggesting a potential herb-drug interaction between puerarin and warfarin.



Scutellarin attenuates endothelium-dependent vasodilation impairment induced by hypoxia reoxygenation, through regulating the PKG signaling pathway in rat coronary artery 264-273

CHEN Ya-Juan, WANG Lei, ZHOU Guang-Yu, YU Xian-Lun, ZHANG Yong-Hui, HU Na, LI Qing-Qing, CHEN Chen, QING Chen, LIU Ying-Ting*, YANG Wei-Min*

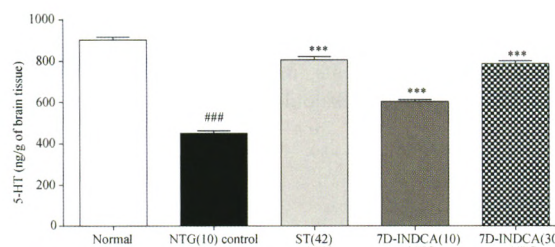
The vasoprotective effects of SCU against HR-induced endothelial dysfunction (ED) in isolated rat CA and the possible mechanisms involving cyclic guanosine monophosphate (cGMP) dependent protein kinase (PKG).



Prophylactic effects of asiaticoside-based standardized extract of *Centella asiatica* (L.) Urban leaves on experimental migraine: Involvement of 5HT1A/1B receptors 274-282

Vijeta Bobade, Subhash L. Bodhankar*, Urmila Aswar, Vishwaraman Mohan, Prasad Thakurdesai

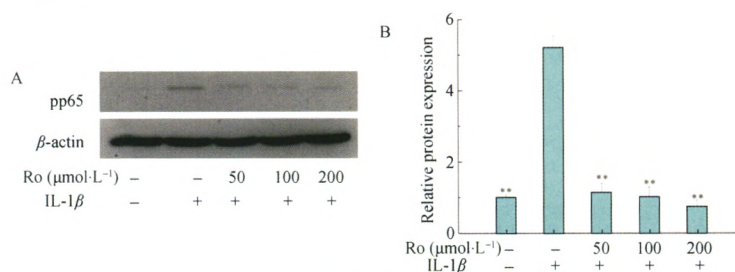
Centella asiatica (L.) Urban leaves demonstrated promising anti-nociceptive effects in animal models of migraine, probably through 5-HT_{1A/1B} mediated action.



Ginsenoside Ro suppresses interleukin-1 β -induced apoptosis and inflammation in rat chondrocytes by inhibiting NF- κ B 283-289

ZHANG Xiao-Hong, XU Xian-Xiang*, XU Tao

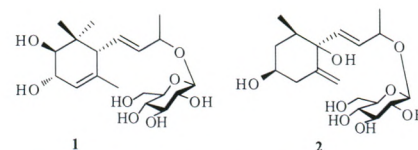
The elevated NF- κ B signaling in chondrocytes contributes to cartilage degradation in osteoarthritis. Ginsenoside Ro (Ro), classified as an oleanolic acid-type ginsenoside, had anti-inflammatory effects. Moreover, Ro markedly suppressed the IL-1 β -stimulated NF- κ B activation in rat chondrocytes.



Structural Elucidation of Two New Megastigmane Glycosides from the Leaves of *Aquilaria sinensis* 290-294

SUN Jian, XIA Fang, WANG Shu, WANG Ke-Yuan, CHEN Jin-Ming, TU Peng-Fei*

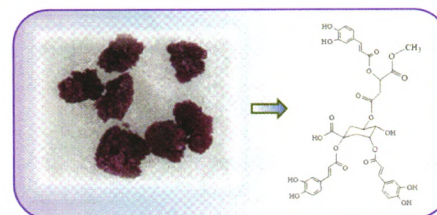
Eight megastigmane glycosides (Compounds 1–8) and two cucurbitacin glycosides (9–10) among them Compounds 1 and 2 were new compounds and Compounds 9 and 10 were reported from *Aquilaria* genus for the first time



A new polyphenol, 1, 3-di-O-caffeoyl-5-O-(1-methoxyl-2-O-caffeoyl-4-maloyl)-quinic acid, isolated from cultured cells of *Saussurea involucreta* 295-298

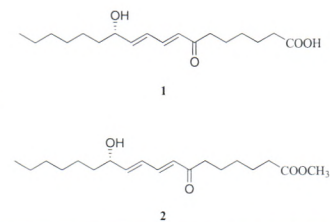
ZOU Xiao-Wei, LIU Dan, LIU Ya-Ping, XIU Zhi-Long*, XIAO Hong-Bin*

One new polyphenol was separated from cultured callus of *Saussurea involucreta*. The new compound showed significant free radical scavenging capabilities.



YAO Da-Lei, ZHANG Chang-Hao, LI Ren, LUO Jie, JIN Mei, PIAO Jin-Hua, ZHENG Ming-Shan, CUI Jiong-Mo, SON Jong Keun, LI Gao*

Two new conjugated ketonic fatty acids were firstly isolated from the genus *Juglans*. Their structures were elucidated by spectroscopic methods including 1D and 2D NMR, HR-ESI-MS, CD, UV and IR.

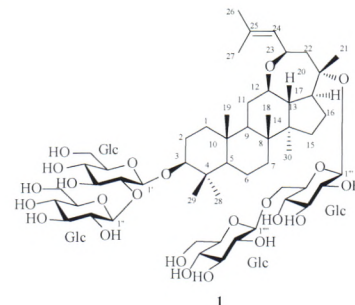


A novel 12, 23-epoxy dammarane saponin from *Panax notoginseng*

303-306

YUAN Cen, XU Fa-Xiang, HUANG Xiao-Jun, LI Shao-Ping, ZHANG Qing-Wen*

A novel 12, 23-epoxy dammarane-type saponin, named epoxynotoginsenoside A (1), together with four known compounds (2–5), was isolated and characterized from the roots and rhizomes of *Panax notoginseng*. This paper reports the isolation and structure elucidation of this new compound.



Antibacterial constituents from *Melodinus suaveolens*

307-310

LI Jiang-Ling, LUNGA Paul-Keilah, ZHAO Yun-Li, QIN Xu-Jie, YANG Xing-Wei, LIU Ya-Ping*, LUO Xiao-Dong*

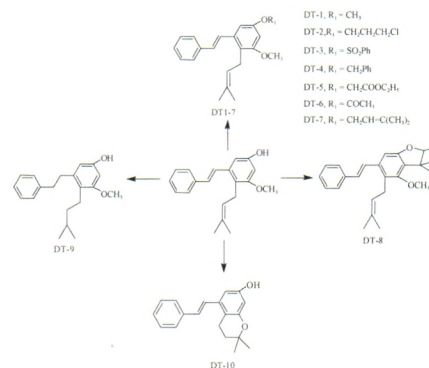
Six compounds isolated from *Melodinus suaveolens* showed potent antibacterial activities against the four bacteria.

Synthesis and cytotoxicity of longistylin C derivatives

311-315

SHAN Yan, HONG Ting, WANG Yan-Fei, ZHANG Nen-Ling, YU Bo, LU Yu*, QIU Sheng-Xiang*

Ten longistylin C derivatives were synthesized and their structures were confirmed by ^1H NMR, MS, and elemental analyses. Their cytotoxicity *in vitro* against three human cancer cell lines (A549, HepG2, and MCF-7) were evaluated by the MTT assay. Among these compounds, DT-6 and DT-9 displayed much better cytotoxicity against A549, HepG2, and MCF-7 cells, DT-1 exhibited selective cytotoxicity against HepG2, and the structure–activity relationships were investigated.



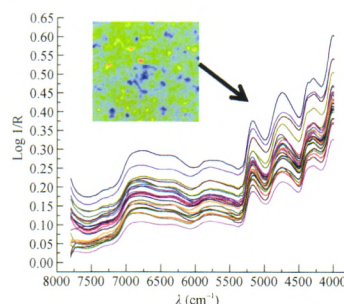
Evaluation of the value of near infrared (NIR) spectromicroscopy for the analysis of glycyrrhizic acid in licorice

316-320

WU Zhi-Sheng, ZHOU Lu-Wei, DAI Sheng-Yun, SHI Xin-Yuan*, QIAO Yan-Jiang*

A quantitative profile provided by near infrared spectromicroscopy was studied by determining the glycyrrhizic acid content in licorice.

Partial least squares, interval partial least square, and least squares support vector regression methods were used to develop linear and non-linear calibration models.





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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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