

# Chinese Journal of Natural Medicines

2017 9

Volume 15 Number 9  
September 2017

( Monthly, Founded in 2003 )

Original name: 中国天然药物



Research advances in the treatment of Alzheimer's disease with polysaccharides from traditional Chinese medicine

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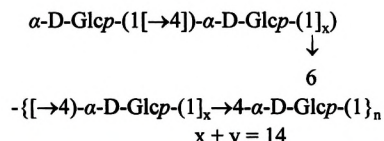


Reviews

Research advances in the treatment of Alzheimer's disease with polysaccharides from traditional Chinese medicine 641-652

LIU Qin, WANG Shun-Chun\*, DING Kan\*

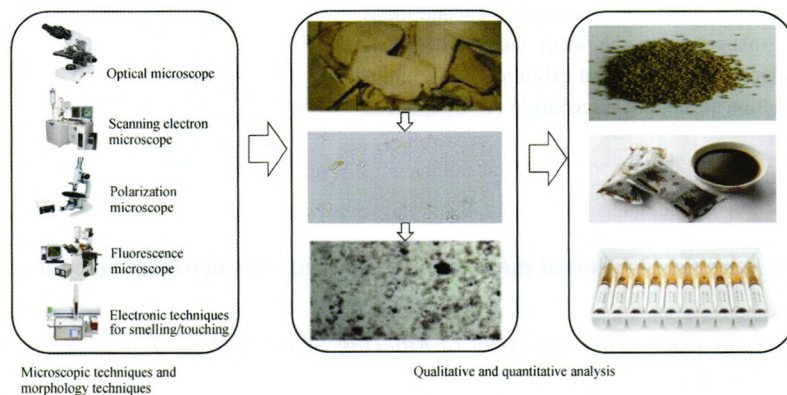
In this review, research advances in polysaccharides from traditional Chinese medicine (TCM) on Alzheimer's disease (AD) made in this decade are summarized.



Advance in quality assessment of Chinese materia medica using microscopic and morphological methods 653-663

MIAO Xiao-Su, CUI Qing-Yu, WANG Zhao-Yi, LIU Xiao-Na, ZHAO An-Bang, QIAO Yan-Jiang\*, WU Zhi-Sheng\*

Microscopic and morphological technologies can be used to distinguish Chinese materia medica's (CMM) characteristics, such as shape, size, texture, section, and smell, for authenticity and quality control of CMM, playing a vital role in ensuring safety and effectiveness of CMM.

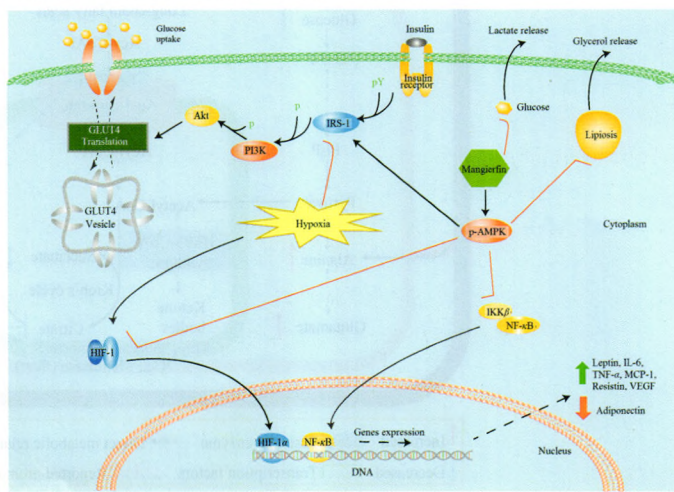


Research articles

Mangiferin ameliorates insulin resistance by inhibiting inflammation and regulating adipokine expression in adipocytes under hypoxic condition 664-673

YANG Chao-Qiang, XU Jing-Hua, YAN Dan-Dan, LIU Bao-Lin, LIU Kang, HUANG Fang\*

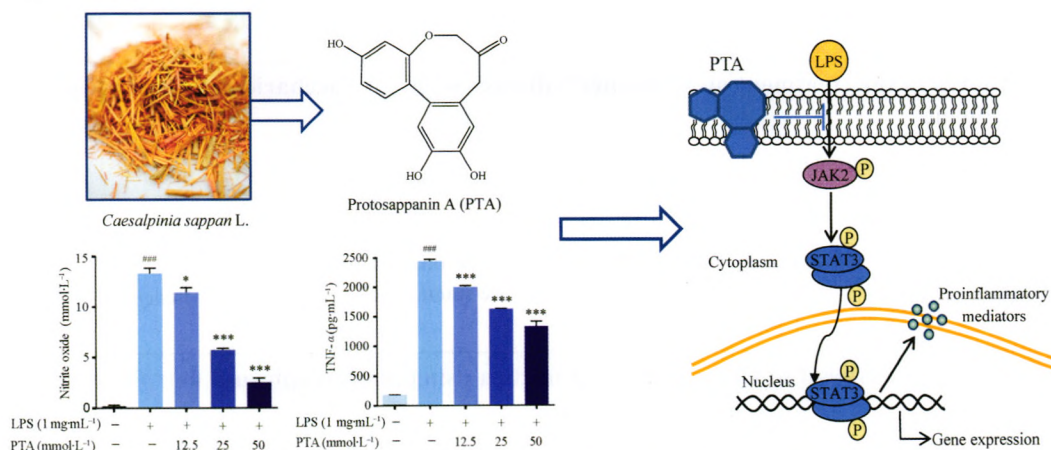
The glucose uptake is inhibited by decreased insulin signaling pathway in 3T3-L1 adipocytes for insulin resistance caused by hypoxic inflammation. Mangiferin had positive effects on insulin-signaling pathway with ameliorated insulin resistance under hypoxia, and also inhibited the inflammation caused by hypoxia.



**Protosappanin A exerts anti-neuroinflammatory effect by inhibiting JAK2-STAT3 pathway in lipopolysaccharide-induced BV2 microglia** 674-679

WANG Li-Chao, LIAO Li-Xi, ZHAO Ming-Bo, DONG Xin, ZENG Ke-Wu\*, TU Peng-Fei\*

Protosappanin A (PTA) is a major biphenyl compound isolated from *Caesalpinia sappan* L. and significantly inhibited the production of NO and TNF- $\alpha$  in LPS-activated BV2 microglia. Mechanism study revealed PTA suppressed JAK2/STAT3 dependent inflammation pathway.

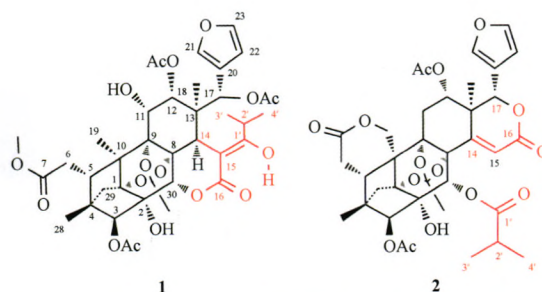


**Two new phragmalin-type limonoids orthoesters from *Entandrophragma candollei***

680-683

QUASIE Olga, LI Hui<sup>A</sup>, LUO Jun, KONG Ling-Yi\*

Two new phragmalin-type limonoids orthoesters, encandollens A (1) and B (2) were isolated from the stem barks of *Entandrophragma candollei* collected in Ghana, and exhibited weak inhibitory effects on NO production in lipopolysaccharide (LPS)-induced RAW 264.7 cells.

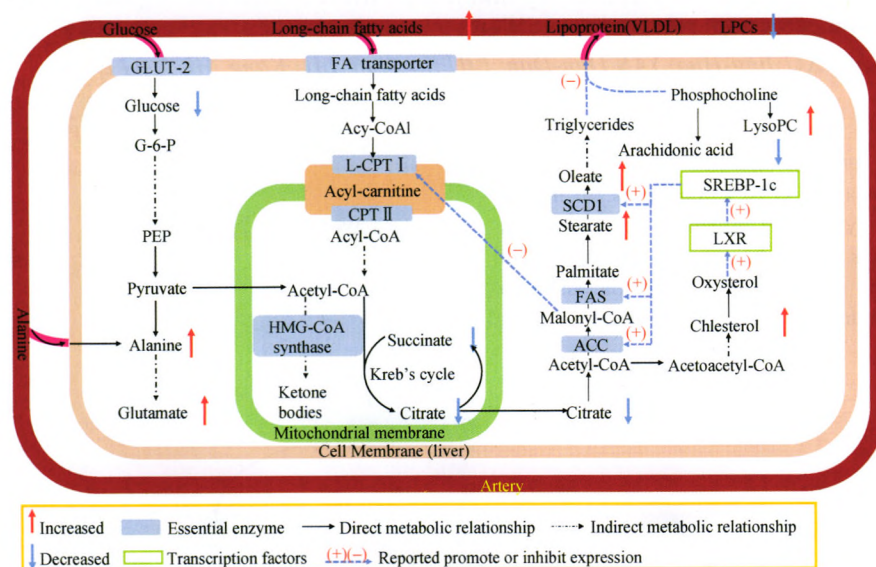


**Combination of LC/MS and GC/MS based metabolomics to study the hepatotoxic effect of realgar nanoparticles in rats** 684-694

684-694

ZHANG Mo-Han, CHEN Jia-Qing, GUO Hui-Min, LI Rui-Ting, GAO Yi-Qiao, TIAN Yuan, ZHANG Zun-Jian\*, HUANG Yin\*

We report the novel application of LC/MS and GC/MS based metabolomics to the hepatotoxic effect of realgar nanoparticles, in which we identified potential biomarkers and functionally related metabolite pathways.

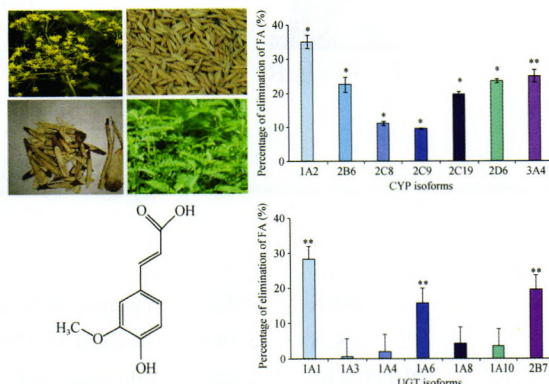




**Identification of human cytochrome P450 and UGT enzymes involved in the metabolism of ferulic acid, a major bioactive component in traditional Chinese medicines** 695-702

ZHUANG Xiao-Mei, CHEN Lin, TAN Yan, YANG Hai-Ying, LU Chuang, GAO Yue, LI Hua\*

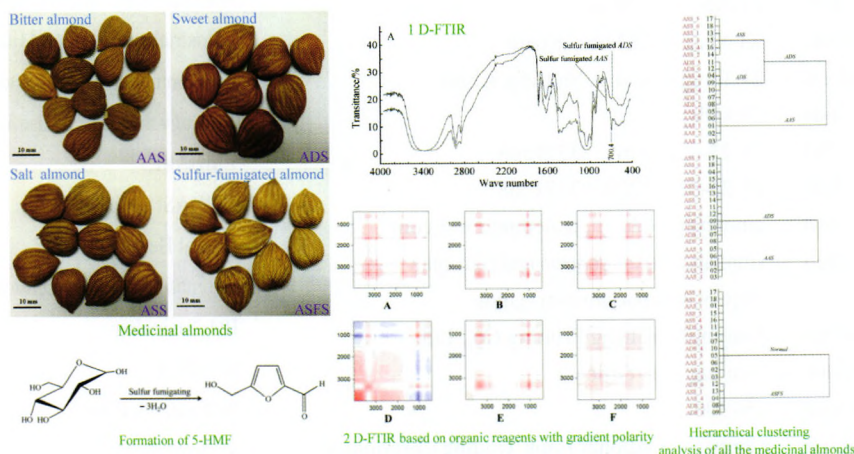
Ferulic acid is a ubiquitous phenolic acid in the plant kingdom and is also a component of Chinese medicinal herbs. It takes low drug-drug interaction risk due to multiple phase I and phase II enzymes involved in its metabolism.



**A new approach for identification of medicinal almonds by fourier transform infrared spectroscopy and systematic clustering of characteristic peaks** 703-709

CHENG Chun-Song, WANG Can-Jian, LIANG Jie, LAO Chi-Chou, ZHOU Hua\*, ZHANG Zhi-Feng\*

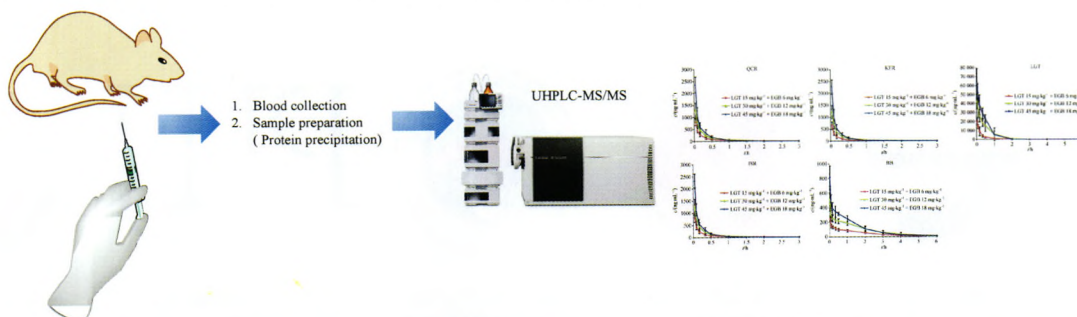
One dimension infrared and 2D infrared data of characteristic peaks contributes to identification of medicinal almonds, including rapid identification of sulfur fumigated almonds.



**An UHPLC-MS/MS method for simultaneous determination of quercetin 3-O-rutinoside, kaempferol 3-O-rutinoside, isorhamnetin 3-O-rutinoside, bilobalide and ligustrazine in rat plasma, and its application to pharmacokinetic study of Xingxiong injection** 710-720

DOU Li-Li, DUAN Li, GUO Long, LIU Le-Le, ZHANG Yu-Dong, LI Ping, LIU E-Hu\*

A simple and reliable UHPLC-MS/MS method was firstly developed and validated for quantification of LGT, QCR, KFR, SR, and BB in XXI in rat plasma, suitable for pharmacokinetic application of the five analytes after intravenous administration of XXI in rats. The results demonstrated that all these compounds owned dose-dependent pharmacokinetic properties at different doses.



[Reference of CJNM] CN32-1845/R\*2003\*m\*A4\*80\*en\*P\*¥50.00\*1000\*09\*2017-09



2015 JCR IF: 1.667



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Cooperate with Elsevier (CJCP)



Full-text on ScienceDirect

Establishment: May 2003

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Published by



Science Press ISSN: 2095-6975

# Chinese Journal of Natural Medicines

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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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PISSN: 2095-6975 EISSN: 1875-5364

Original PISSN: 1672-3651

Publication Frequency: 12 issues per year/Monthly

Editing: Editorial Board of Chinese Journal of Natural Medicines

Address: 24, Tongjia Xiang, Nanjing, China

Postcode: 210009

Tel: 86-25-83271565, 83271568

Fax: 86-25-83271229

E-mail: [cpucjnm@163.com](mailto:cpucjnm@163.com)

<http://www.cpucjnm.com>

Price: ¥ 50 per issue

ISSN 2095-6975



9 772095 697175

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