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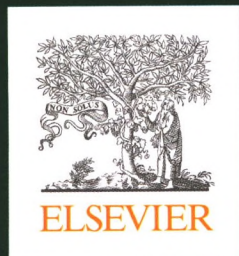
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The role of neutrophils in triptolide-induced liver injury

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Review

Anticancer activity and underlying mechanism of neogambogic acid

641-643

SUN Rui, ZHANG Hong-Ming, CHEN Bao-An*

In this review, we summarize the advances made in the investigation of the anti-tumor effect of neogambogic acid in recent years. Neogambogic acid is an isolated compound with a similar chemical structure as gambogic acid. It can selectively inhibit the growth of various cancer cells, and has a broader antitumor activity and lower toxicity than gambogic acid.

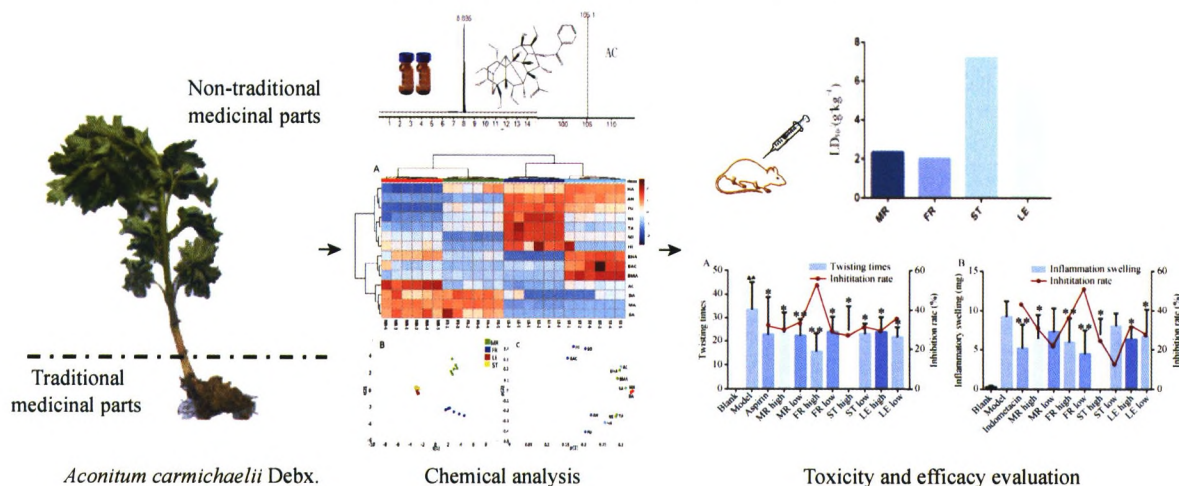
Research Articles

Stems and leaves of *Aconitum carmichaelii* Debx. as potential herbal resources for treating rheumatoid arthritis: Chemical analysis, toxicity and activity evaluation

644-652

HE Ya-Nan, OU Shui-Ping, XIONG Xi, PAN Yuan, PEI Jin, XU Run-Chun, GENG Fu-Neng, HAN Li, ZHANG Ding-Kun*, YANG Ming*

Stems and leaves were the wastes during the process of *Aconitum carmichaelii* Debx. and were not used in the traditional medicine. The present study was designed to determine the feasibility of the stems and leaves of *A. carmichaelii* Debx. as a new medicinal resource. The results suggested the stems and leaves were far less toxic than mother and fibrous roots, and the analgesia and inflammatory tests showed the effects of the various tissues had no difference each other.

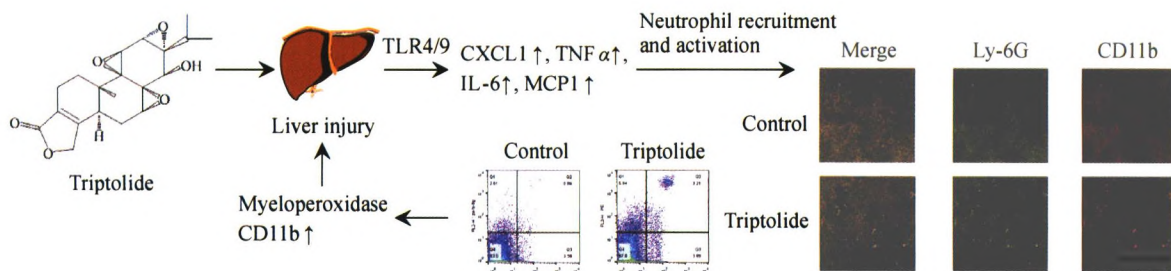


The role of neutrophils in triptolide-induced liver injury

653-664

WANG Xin-Zhi, ZHANG Shen-Ye, XU Yao, ZHANG Lu-Yong*, JIANG Zhen-Zhou*

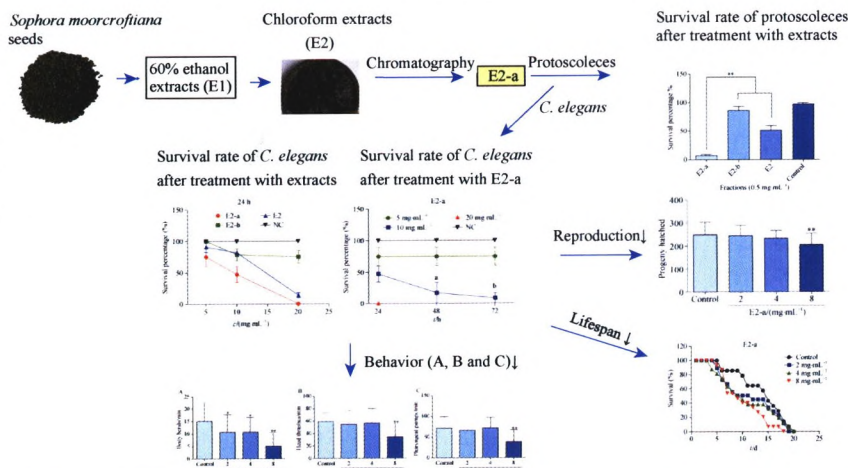
Neutrophils were recruited and accumulated in the liver after triptolide administration, which was parallel to or slightly after the development of liver injury. Neutrophils induced release of myeloperoxidase and up-regulation of CD11b, which caused cytotoxicity and hepatocyte death. Hepatic expressions of CXCL1, TNF α , IL-6, and MCP1 were increased significantly to regulate neutrophils recruitment and activation.



Anti-parasitic effects of water-soluble alkaloid fractions from ethanolic extracts of *Sophora moorcroftiana* seeds in *Caenorhabditis elegans* 665-673

LUO Yan-Ping, ZHANG Yuan, ZHANG Hui-Min, ZHANG Hong, ZHANG Lin, YU Hong-Juan, CAO Ming-Qiang, SHI Yan-Bin, ZHI De-Juan, MA Xing-Ming*, DONG Kai-Zhong*

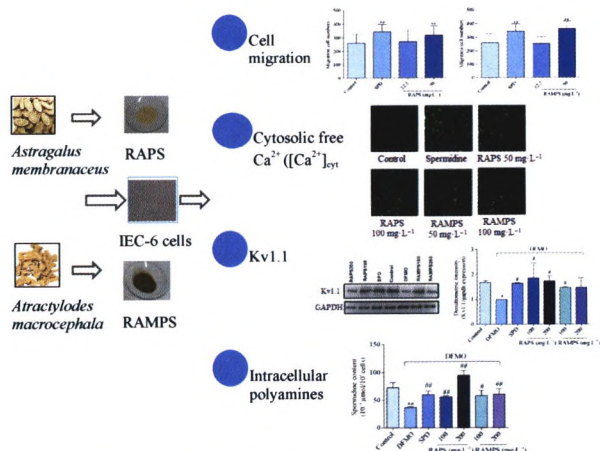
In the present study, the water-soluble alkaloid E2-a with low polarity was isolated from *Sophora moorcroftiana*. E2-a showed strongest lethality in *Caenorhabditis elegans* and protoscoleces, and E2-a could affect the motility behavior, reduce the brood size, and shorten the lifespan in *C. elegans*.



Polysaccharide extracts of *Astragalus membranaceus* and *Atractylodes macrocephala* promote intestinal epithelial cell migration by activating the polyamine-mediated K⁺ channel 674-682

ZENG Dan^A, HU Can^A, LI Ru-Liu^{*}, LIN Chuan-Quan, CAI Jia-Zhong, WU Ting-Ting, SUI Jing-Jing, LU Wen-Biao, CHEN Wei-Wen

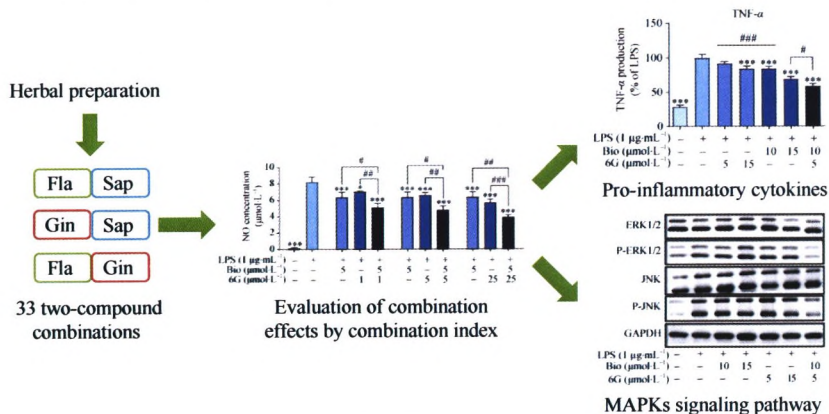
Astragalus membranaceus and *Atractylodes macrocephala* are often used to treat gastrointestinal diseases. In the present study, polysaccharide extracts of *A. membranaceus* (RAPS) and *A. macrocephala* (RAMPS) respectively showed promoting effect on intestinal epithelial cell migration after wounding by activating the polyamine-mediated K⁺ channel.



Discovery of synergistic anti-inflammatory compound combination from herbal formula GuGe FengTong Tablet 683-692

LIU Le-Le^A, LIU Qun^A, LI Ping^{*}, LIU E-Hu^{*}

In this work, a screening strategy was established to reveal the synergistic effects between compounds in GuGe FengTong Tablet (GGFTT). Compared with single compound, the combination could synergistically inhibit the production of pro-inflammatory cytokines and the activation of MAPKs signaling pathway.



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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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