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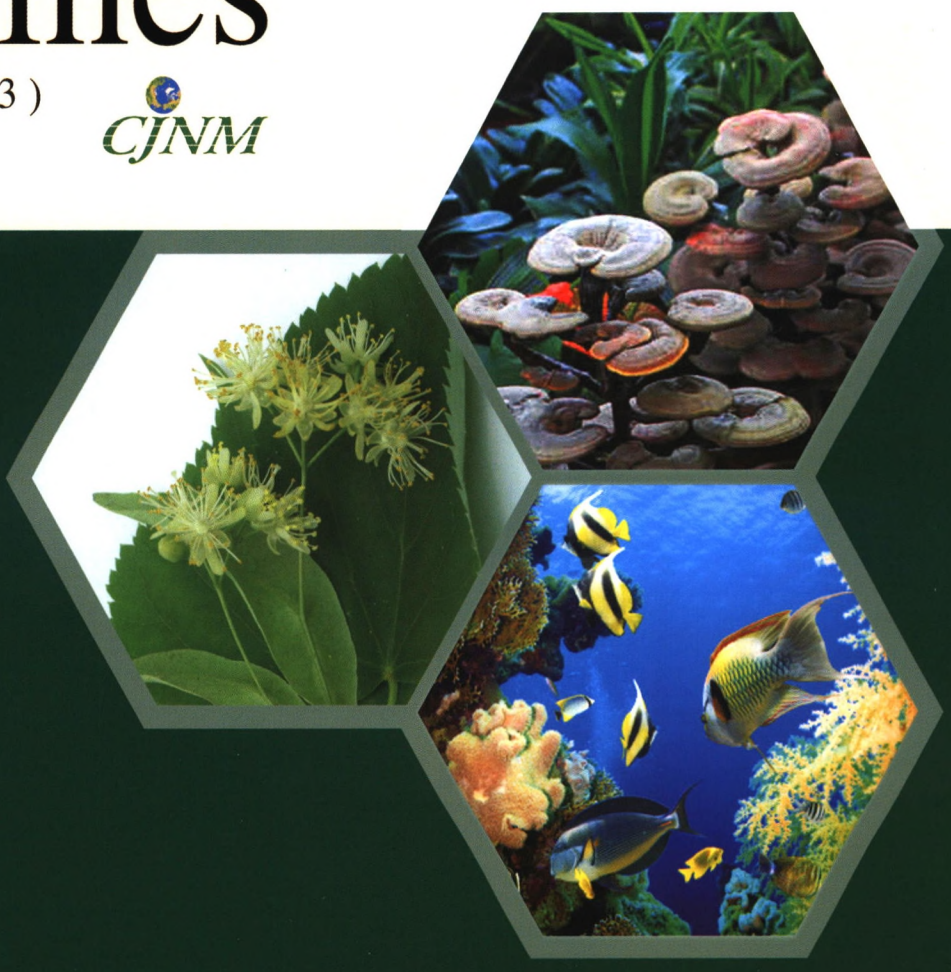

rediction of the globally ecological uitability of *Panax quinquefolius* by the eographic information system for global nedicinal plants (GMPGIS)

HEN Shi-Lin, Ph.D, professor, the Director of he Institute of Chinese Materia Medica, China cademy of Chinese Medical Sciences

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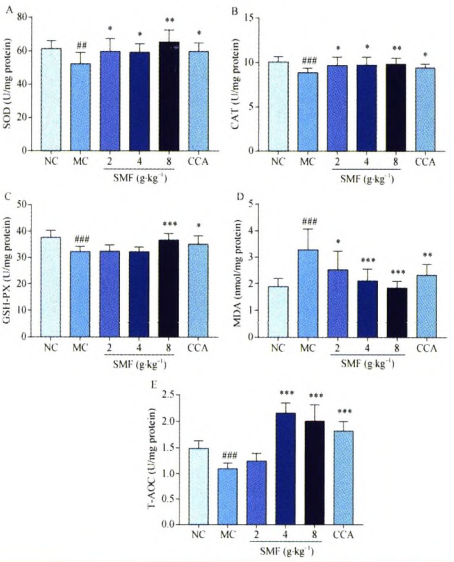
Contents

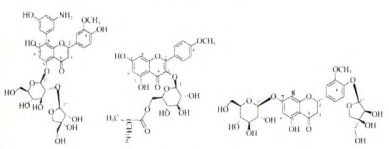
·Research articles·

The aim of this study is to investigate the protective effects of a small molecular fraction (SMF) of *Polygoni multiflori* Radix Praeparata (PMRP) in a cyclophosphamide (CTX) induced anemia mouse model. The results show that SMF can significantly accelerate the recovery of peripheral hemogram, increase the activity of antioxidant enzymes and GM-CSF in serum and spleen. SMF also increases the number of spleens cells, improves bone marrow pathology. These show that, the SMF of PMRP promoted the recovery of hematopoietic function in a CTX-induced anemia mouse, which can support SMF to be used as an adjunct to chemotherapy to counteract its side effects.

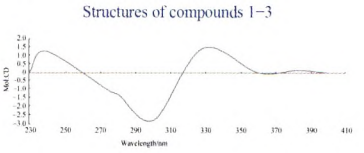


Two new flavonoid glycosides, named viscumneoside XII (**1**), and viscumneoside XIII (**2**); a new dihydrogen flavonoid glycoside product named viscumneoside XIV (**3**), were isolated from the aerial part of *Viscum album*, along with seven known compounds. In addition, cytotoxicity assay showed that **1**, **2** and **3** possessed significant inhibitory activities against C6, A549 and MDA-MB-231 (the inhibition rate arrived about 50%, 70% and 74% respectively with $IC_{50} \leq 60.00\ \mu mol \cdot L^{-1}$).

Viscum album

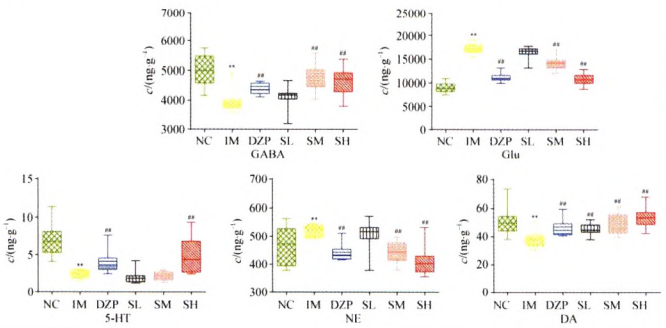


Structures of compounds 1–3



CD spectrum of compound 3

The data obtained in this study demonstrate that Ziziphi Spinosae Semen (ZSS) aqueous extract (4 and 8 $g \cdot kg^{-1} \cdot d^{-1}$ for seven days) could ameliorate the symptoms of insomnia by significantly changing the levels of the neurotransmitter parameters and modulating the levels of monoamines and amino acid neurotransmitters in the brain.



NC: Normal control
IM: Insomnia model
DZP: Diazepam
SL: ZSS-treated (2 $g \cdot kg^{-1}$)
SM: ZSS-treated (4 $g \cdot kg^{-1}$)
SH: ZSS-treated (8 $g \cdot kg^{-1}$)

[Reference of *CJNM*] CN32-1845/R*2003*m*A4*80*en*P*¥50.00*1500*9*2019-07

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Chinese Journal of Natural Medicines

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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- Chemical Analysis and Quality Control
- Pharmacokinetics and Clinical Efficacy
- DNA-based Botanical Authentication
- Medicinal Plant Resource Investigations

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