

# 天然产物研究与开发(双月刊)

(Tianran Chanwu Yanjiu yu Kaifa)

第22卷 第4期 2010年8月

## 目 次

### 研究论文

- 中药五灵脂的化学成分研究 ..... 赵君,戴丽香,雷婷,等(541)  
分离自木霉PT2的一个新倍半萜糖苷(英文) ..... 杜希萍,李瑶瑶,鲁春华,等(544)  
天然产物紫檀芪及(E)-3,5,3'-三甲氧基-4'-羟基二苯乙烯的合成 ..... 肖春芬,孙洪宜,陈煜,等(548)  
漆酶在对苯二甲酰氯-己二胺缩聚物载体上的固定:物理吸附及共价偶联的比较 ..... 曾涵,赵淑贤,王永疆,等(553)  
白藜芦醇分子印迹聚合物微球的制备及特性评价(英文) ..... 洪美花,陈元涛,王婧,等(559)  
内生芬芳镰刀菌Dz2中两个抗菌活性成分(英文) ..... 徐利剑,李培琴,赵江林,等(564)  
30种芳香植物材料对有翅桃蚜的驱避活性测定 ..... 王英慧,李为争,游秀峰,等(568)  
植物雌激素对大鼠成骨细胞TGF- $\beta$ 信号转导蛋白Smad4表达的影响 ..... 辛欣,詹文红,王建华,等(575)  
梅花鹿茸胶原酶解物对去势大鼠骨质疏松症防治作用的实验研究(英文) ..... 李银清,赵雨,唐仁能,等(578)  
合欢皮总皂苷急性毒理学研究 ..... 赵建国,刘玲艳,朱颖越,等(582)

### 研究简报

- 百两金的化学成分 ..... 张嫩玲,胡江苗,周俊,等(587)  
苏木化学成分的研究(I) ..... 王振月,王宗权,周亚滨,等(590)  
蓝花侧金盏化学成分的研究 ..... 戴源,张蓓蓓,许柚,等(594)  
红树植物老鼠簕中的甾醇和萜类成分 ..... 海芳,唐旭利,李国强(597)  
棉蝗肠道真菌Phoma sp. HC03除草和免疫抑制成分研究 ..... 张应烙,尹彩萍,叶圣涛,等(600)  
龙须菜免疫活性多糖的分离纯化及结构鉴定 ..... 官春宇,唐庆九,张劲松,等(603)  
紫锥菊挥发性成分分析研究 ..... 曾栋,文瑞芝,潘振球,等(607)  
藏药镰形棘豆挥发性成分研究(英文) ..... 王栋,杨欢,杨光明,等(614)  
不同储藏时间笔架茶生物碱成分分析 ..... 吴海强,王晓娟,艾梅,等(620)  
三种苦瓜多糖的体外发酵特性比较研究 ..... 柏美娟,杨峰,孔祥峰,等(625)  
L-菊苣酸在不同溶剂中的光致差向异构化 ..... 谢继国,陈波,郭建伟,等(630)  
远志中远志酸含量影响因素初探 ..... 赵云生,万德光,裴瑾,等(634)  
薄层色谱-分光光度法测定樟芝菌粉中的总三萜含量 ..... 张寅,许泓瑜,陆震鸣,等(639)  
不同海拔高度五脉绿绒蒿中槲皮素和木犀草素含量变化 ..... 张长现,叶润蓉,卢学峰,等(643)

### 开发研究

- 一种云芝发酵所产胃蛋白酶抑制剂的纯化及部分性质研究 ..... 刘琦,田亚平(647)  
香螺血清、肌肉和唾液腺凝集素凝集性能的初步研究 ..... 陈琳,许高云,饶小珍,等(651)  
帽蕊木 $\alpha$ -葡萄糖苷酶抑制活性研究 ..... 康文艺,宋艳丽,张丽(658)  
单环刺螠纤溶酶UFE-I的性质和溶栓活性 ..... 初金鑫,蔡文娣,韩宝芹,等(661)  
7种不同蜜源蜂蜜的化学组成及抗氧化性 ..... 郭夏丽,罗丽萍,冷婷婷,等(665)  
沙棘茶水溶性多糖抗氧化活性的研究 ..... 李芳亮,王锐,张红梅(671)  
油脂下脚料降解菌的选育 ..... 颜焱娜,杨红武,刘仁萍,等(674)  
不同成熟期栀子果实有效成分累积的研究 ..... 何国振,周妹,汤丽云,等(678)  
Nisin生物保鲜剂对冷藏带鱼的保鲜效果研究 ..... 蓝蔚青,谢晶,杨胜平,等(683)  
木香倍半萜对血管内皮细胞生长因子的抑制作用 ..... 郝立杰,赵烽,高治廷,等(687)  
48种中药材的多种提取方法的提取物抑制内皮细胞和癌细胞增殖的活性研究 ..... 陈龙,刘英学,陈少鹏,等(692)  
齐墩果醇-龙胆三糖苷雌激素样作用及其对肝癌HepG2细胞增殖的影响 ..... 杨笛笑,李麒麟,张国林,等(697)  
望江南总蒽醌苷抗肿瘤作用的研究 ..... 李月玲,张太平,彭士明,等(701)  
乳源活性肽对抗猪瘟病毒抗体IgG、IgA和IgM水平的影响 ..... 田萌,李佳,马跃文,等(705)

### 综 述

- 酪蛋白糖巨肽的研究进展 ..... 刘志东,王荫榆,郭本恒(709)  
亚麻籽油的营养特性研究进展 ..... 邓乾春,禹晓,黄庆德,等(715)  
亚临界水萃取植物酚类物质研究进展 ..... 何李,高彦祥(722)  
射干叶中黄酮类化合物的药理作用研究进展 ..... 张良,张玉奎,戴荣继,等(728)

# NATURAL PRODUCT RESEARCH AND DEVELOPMENT (Bimonthly)

Volume 22 Number 4 August 2010

## CONTENTS

1. Chemical constituents of *Tropopterus xanthipes* ..... ZHAO Jun, DAI Li-xiang, LEI Ting, et al ( 541 )
2. A novel sesquiterpene glucoside from *Trichoderma* sp. PT2 ..... DU Xi-ping, LI Yao-yao, LU Chun-hua, et al ( 544 )
3. Synthesis of natural products pterostilbene and E-3,5,3'-trimethoxy-4'-hydroxystilbene ..... XIAO Chun-fen, SUN Hong-yi, CHEN Yu, et al ( 548 )
4. Immobilization of laccase from *Trametes versicolor* on polymer of paraphthaloyl chloride and hexane diamine: physical adsorption and covalent coupling ..... ZENG Han, ZHAO Shu-xian, WANG Yong-jiang, et al ( 553 )
5. Preparation and characterization of resveratrol molecularly imprinted polymeric microspheres ..... HONG Mei-hua, CHEN Yuan-tao, WANG Jing, et al ( 559 )
6. Two antimicrobial compounds fusaric acid and 9,10-Dehydrofusaric acid from endophytic *Fusarium redolens* Dz2 ..... XU Li-jian, LI Pei-qin, ZHAO Jiang-lin, et al ( 564 )
7. Bioassay on the repellent effects of 30 aroma plant materials on alate *Myzus persicae* (Sulzer) ..... WANG Ying-hui, LI Wei-zheng, YOU Xiu-feng, et al ( 568 )
8. Effects of phytoestrogens on expression of TGF- $\beta$  signal transduction protein Smad4 of osteoblasts ..... XIN Xin, ZHAN Wen-hong, WANG Jian-hua ( 575 )
9. Prevention and therapeutic effect of Sika deer velvet collagen hydrolysate on osteoporosis in ovariectomized rats ..... LI Yin-qing, ZHAO Yu, TANG Ren-neng, et al ( 578 )
10. Research on emergency toxicology of total saponin in silktree albizia bark ..... ZHAO Jian-guo, LIU Ling-yan, ZHU Ying-yue, et al ( 582 )
11. Chemical constituents of *Ardisia crispa* (Thunb.) A. DC. ..... ZHANG Nen-ling, HU Jiang-miao, ZHOU Jun, et al ( 587 )
12. Studies on the chemical constituents in herb of *Caesalpinia sappan* L. ( I ) ..... WANG Zhen-yue, WANG Zong-quan, ZHOU Ya-bin, et al ( 590 )
13. Chemical constituents of *Adonis coerulea* Maxim. ..... DAI Yuan, ZHANG Bei-bei, XU You, et al ( 594 )
14. Steroids and terpenoids from the mangrove *Acanthus ilicifolius* ..... HAI Fang, TANG Xv-li, LI Guo-qiang ( 597 )
15. Studies on the herbicidal and immunosuppressive composition of *Phoma* sp. HC03, a fungus residing in *Chondracris rosea* gut ..... ZHANG Ying-lao, YING Cai-ping, YE Sheng-tao, et al ( 600 )
16. Isolation, purification and identification of immunomodulation polysaccharide from *Gracilaria lemaneiformis* (Gracilariales, Rhodophyta) ..... GONG Chun-yu, TANG Qing-jiu, ZHANG Jin-song, et al ( 603 )
17. Study on the volatile components analysis in *Echinacea purpurea* ..... ZENG Dong, WEN Rui-zhi, PAN Chen-qiu, et al ( 607 )
18. Volatile compositions from a tibetan medicine, *Oxytropis falcate* Bunge ..... WANG Dong, YANG Huan, YANG Guang-ming, et al ( 614 )
19. Determination of alkaloids from Bijia tea stored for different lengths of time ..... WU Hai-qiang, WANG Xiao-juan, AI Mei, et al ( 620 )
20. Comparative study on *in vitro* fermentation characteristics of three fractions of *Momordica charantia* polysaccharides ..... BO Mei-juan, YANG Feng, KONG Xiang-feng, et al ( 625 )
21. Photoepimerization of L-eichoric acid in different solvents ..... XIE Ji-guo, CHEN Bo, GUO Jian-wei, et al ( 630 )
22. Study on some influence factors of polygalacic acid content in *Polygala tenuifolia* Willd or *P. sibirica* L. ..... ZHAO Yun-sheng, WAN De-guang, PEI Jin, et al ( 634 )
23. Determination of total triterpenoids in *Antrodia amphotera* in submerged culture by TLC-spectrophotometry method ..... ZHANG Yin, XU Hong-yu, LU Zhen-ming, et al ( 639 )
24. Variations on the contents of quercetin and luteolin of *Meconopsis quintuplinervia* regel from different altitudes ..... ZHANG Chang-xian, YE Run-rong, LU Xue-feng, et al ( 643 )
25. Purification and characterization of pepsin inhibitor from fermentation by *Coriolus versicolor* ..... LIU Qi, TIAN Ya-ping ( 647 )
26. A preliminary study on agglutination of agglutinins of serum, muscular and salivary gland from *Napaeaea cumingi* crosse ..... CHEN Lin, XU Gao-yun, RAO Xiao-zhen, et al ( 651 )
27. Inhibition of  $\alpha$ -glucosidase of *Miragyna rotundifolia* Kunze ..... KANG Wen-yi, SONG Yan-li, ZHANG Li ( 658 )
28. Characterization and thrombolysis activity of fibrinolytic enzyme UFE-I from *Urechis unicinctus* ..... CHU Jin-xin, CAI Wen-di, HAN Bao-qin, et al ( 661 )
29. Chemical compositions and antioxidant activities of seven honeys from different floral sources ..... GUO Xia-li, LUO Li-ping, LENG Ting-ting, et al ( 665 )
30. Study on the antioxidation activities of water soluble polysaccharides from *Hippophae Rhamnoides* tea ..... LI Fang-liang, WANG Rui, ZHANG Hong-mei ( 671 )
31. Isolation of strains degrading the garbage of oil and fat ..... YAN Yan-na, YANG Hong-wu, LIU Ren-ping, et al ( 674 )
32. Studies on the accumulation of major active compounds from *Gardenia jasminoides* fruits in different ripening stages ..... HE Gou-zhen, ZHOU Mei, TANG Li-yun, et al ( 678 )
33. Research on the fresh-keeping effect of nisin on *Trichiurus haumela* under the cold storage ..... LAN Wei-qing, XIE Jing, YANG Sheng-ping, et al ( 683 )
34. Inhibitory effects of sesquiterpenes from *Saussurea iappa* on the vascular endothelial growth factor ..... HAO Li-jie, ZHAO Feng, GAO Zhi-ting, et al ( 687 )
35. Antiproliferative inhibition of endothelial cell and cancer cells by different extracts of 48 traditional Chinese medicines ..... CHEN Long, LIU Ying-xue, CHEN Shao-peng, et al ( 692 )
36. Estrogenic activity of egnol gentiotrioseide and its effect on HepG2 cells proliferation ..... YANG Di-xiao, LI Qi-lin, ZHANG Guo-lin, et al ( 697 )
37. Study on anti-tumor effects of total anthraquinone glycosides from coffee senna ..... LI Yue-ling, ZHANG Tai-ping, PENG Shi-ming, et al ( 701 )
38. The effect of milk-derived bioactive peptides on contents of IgG, IgA and IgM immunized with C-strain vaccine of classical swine fever virus ..... TIAN Meng, LI Jia, MA Yue-wen, et al ( 705 )
39. Development of research on caseinoglycomacropeptide ..... LIU Zhi-dong, WANG Yin-yu, GUO Ben-heng ( 709 )
40. Research progress on nutritional characteristics of linseed oil ..... DENG Qian-chun, YU Xiao, HUANG Qing-de, et al ( 715 )
41. Research and development of subcritical water extraction in plant phenolic compounds ..... HE Li, GAO Yan-xiang ( 722 )
42. The pharmacological effects of C-glycoside flavones in the leaves of *Belamcanda chinensis* ..... ZHANG Liang, ZHANG Yu-kui, DAI Rong-ji, et al ( 728 )