

# 天然产物研究与开发

Natural Product Research and Development

NMR

X-ray

HPLC

9 Volume 25  
September 2013

中国中文核心期刊  
中国科学引文数据库核心期刊 (CSCD)  
中国科技论文与引文数据库统计源期刊 (CSTPCD)  
中国学术期刊综合评价数据库统计源期刊 (CAJCED)

# 天然产物研究与开发(月刊)

(Tianran Chanwu Yanjiu yu Kaifa)

第25卷 第9期 2013年9月

## 目 次

### 研究论文

- 无机盐和蔗糖浓度对白色紫锥菊不定根生长及次生代谢产物积累影响 ..... 吴春华,王 森,宋杭霖,等(1167)
- 链霉菌 3704 杀虫成分及对小菜蛾的毒力测定 ..... 沈会芳,张广文,林壁润,等(1172)
- 决明查尔酮合成酶的同源模建和分子模拟对接 ..... 李云双,周 虹,钟德馨,等(1175)
- 猴头菌多糖不同脱色方法的研究 ..... 蒋 俊,杨 焱,罗 玺,等(1180)
- 青牛胆总黄酮的对比提取研究 ..... 唐纯翼(1185)
- 黄原胶寡糖的抗氧化性能和非酶糖基化抑制作用研究(英文) ..... 孙 涛,李 铭,熊小英,等(1192)
- EGCG 铜离子络合物对结肠癌细胞内活性氧水平的影响(英文) ..... 涂云飞,杨秀芳,张士康,等(1197)
- 生精冲剂对白消安致生精障碍大鼠恢复精子发生及其机理的研究 ..... 王庆忠,王东方,刘慧莲,等(1201)

### 研究简报

- 排风藤中皂苷类化学成分研究(英文) ..... 左小明,郭玲芝,程 凡,等(1205)
- 龙须藤的化学成分研究 ..... 徐 伟,李 煌,褚克丹,等(1209)
- 普洱熟茶化学成分的 HPLC-DAD-MS 分析(英文) ..... 许 敏,陶慕珂,董鸿竹,等(1212)
- 不同品种荔枝对荔枝蒂蛀虫引诱活性成分的研究 ..... 郭育晖,叶慧娟,方 炜,等(1218)
- 三白草花、叶和茎挥发性成分的比较分析 ..... 尹震花,王培卿,孔祥密,等(1222)
- 羧甲基化壳聚糖季铵盐与牛血清白蛋白的相互作用研究 ..... 李小芳,冯小强,杨 声,等(1226)
- 三种昆虫的营养成分测定 ..... 姬玉娇,孔祥峰,周笑犁,等(1229)
- HPLC-ELSD 法测定闹羊花中 Rhodjaponin-III 和 Rhodjaponin-VI 含量 ..... 张枝润,周 成,娄志华,等(1234)
- HPLC 法测定新疆阿魏不同部位阿魏酸的含量 ..... 高婷婷,丁 旭,谭 勇,等(1237)

### 开发研究

- 负压空化法提取五倍子单宁酸的响应面法优化 ..... 闵凡芹,张宗和,秦 清,等(1240)
- 响应面法优化紫甘薯花色苷水解条件 ..... 代 凤,毛建霏(1245)
- 响应面法优化人工蛹虫草子实体中虫草酸微波提取工艺 ..... 邓 黎,韩 涛,王晓虹,等(1249)
- $\beta$ -环糊精包合挥发油和丹皮酚的工艺研究 ..... 谷 雨,潘书洋,李超生,等(1255)
- 不同提取方法对软枣猕猴桃多糖单糖组成及抗氧化活性的影响 ..... 宣 丽,刘长江(1260)
- 葛花鸢尾苷的酸水解及其对乙醇脱氢酶激活作用的研究 ..... 胡玉涛,马双双,刘 莹,等(1266)
- 四种护脾养胃类中药水提物抗氧化能力测定 ..... 王征帆(1271)
- 镉损伤小鼠心脏形态学研究及咖啡酸苯乙酯的保护作用 ..... 陈福欣,龚 频,王 静,等(1274)
- 淫羊藿苷对小鼠力竭游泳时间及力竭恢复小鼠血清生化指标的影响 ..... 臧 洁,李宝茹,吴 涛,等(1277)
- 栀子水提取物对实验性 2 型糖尿病大鼠血糖及同型半胱氨酸水平的影响 ..... 周瑞华,王虹玉,喇万英,等(1281)

### 综 述

- 中国海洋共附生真菌次生代谢产物最新研究进展 ..... 张翠仙,彭光天,何细新,等(1284)
- 水溶性甘草多糖的分离纯化、结构及生物活性研究进展 ..... 代巧玉,康 丁,张洪斌(1292)
- 补骨脂中异戊烯基黄酮类化合物及其药理作用研究进展 ..... 耿革霞,黄又五,郭夫江(1297)
- 杜仲主要生物活性研究进展 ..... 王志宏,彭 胜,雷明盛,等(1302)

# NATURAL PRODUCT RESEARCH AND DEVELOPMENT (Monthly)

Volume 25 Number 9 September 2013

## CONTENTS

1. Medium salt strength and sucrose concentration affect root growth and secondary metabolite contents in adventitious root cultures of *Echinacea pallida* ..... WU Chun-hua, WANG Miao, SONG Hang-lin, *et al* (1167)
2. Insecticidal component of *Streptomyces* sp. 3704 and its bioactivity against *Plutella xylostella* ..... SHEN Hui-fang, ZHANG Guang-wen, LIN Bi-run, *et al* (1172)
3. Homology modeling and molecular simulation docking on Chalcone synthase from *Senna tora* ..... LI Yun-shuang, ZHOU Hong, ZHONG De-xin, *et al* (1175)
4. Study on different decolorization methods of *Hericium erinaceus* polysaccharide ..... JIANG Jun, YANG Yan, LUO Xi, *et al* (1180)
5. Extraction of total flavonoids from *Tinospora sagittata* of Tongdao ..... TANG Chun-yi (1185)
6. Antioxidant and nonenzymatic glycation inhibition activities of canthan oligosaccharides ..... SUN Tao, LI Ming, XIONG Xiao-ying, *et al* (1192)
7. Effect of epigallocatechin-3-gallate/copper (II) complex on the level of intracellular reactive oxygen species of colorectal cancer cell ..... TU Yun-fei, YANG Xiu-fang, ZHANG Shi-kang, *et al* (1197)
8. Effect of soluble granule of Shengjing on spermatogenesis in model rats of spermatogenic impairment prepared with busulfan ..... WANG Qing-zhong, WANG Dong-fang, LIU Hui-lian, *et al* (1201)
9. Saponins from the plant of *Solanum cathayanum* ..... ZUO Xiao-ming, GUO Ling-zhi, CHENG Fan, *et al* (1205)
10. Studies on chemical constituents of *Bauhinia championii* (Benth.) benth ..... XU Wei, LI Huang, CHU Ke-dan, *et al* (1209)
11. HPLC-DAD-MS analysis of chemical compositions of Pu-er ripe tea ..... XU Min, TAO Mu-ke, DONG Hong-zhu, *et al* (1212)
12. Study on volatile constituents of 4 cultivars of litchi with different resistant ability to *Conopomorpha sinensis* bradley ..... GUO Yu-hui, YE Hui-juan, FANG Wei, *et al* (1218)
13. Comparative analysis of volatiles of flowers, leaves and stems of *Saururus chinensis* (Lour) baill ..... YIN Zhen-hua, WANG Pei-qing, KONG Xiang-mi, *et al* (1222)
14. Study on the interaction of carboxymethyl chitosan quaternary ammonium and bovine serum albumin ..... LI Xiao-fang, FENG Xiao-qiang, YANG Sheng, *et al* (1226)
15. Determination of nutrients in three insects ..... JI Yu-jiao, KONG Xiang-feng, ZHOU Xiao-li, *et al* (1229)
16. A new HPLC-ELSD method for the quantification of rhodojaponin III and rhodojaponin VI in *Rhododendron molle* ..... ZHANG Zhi-run, ZHOU Cheng, LOU Zhi-hua, *et al* (1234)
17. Determination of ferulic acid in different parts of *Ferula sinkiangensis* using HPLC ..... GAO Ting-ting, DING Xu, TAN Yong, *et al* (1237)
18. Optimization of vacuum cavitation extraction of tannic acid from Chinese gallnut using response surface method ..... MIN Fan-qin, ZHANG Zong-he, QIN Qing, *et al* (1340)
19. Optimization of conditions for anthocyanin hydrolysis from purple sweet potato by response surface methodology ..... DAI Feng, MAO Jian-fei (1245)
20. Optimization of microwave extraction of cordycepic acid in cultured *Cordyceps militaris* by response surface methodology ..... DENG Li, HAN Tao, WANG Xiao-hong, *et al* (124)
21. Study on  $\beta$ -cyclodextrin inclusion technology of volatile oil and paeonol ..... GU Yu, PAN Shu-yang, LI Chao-sheng, *et al* (1255)
22. Effect of different extraction methods on the monosaccharide composition and antioxidant activity of polysaccharides from *Actinidia arguta* ..... XUAN Li, LIU Chang-jiang (1260)
23. Study on tectorigenin extracted from *Puerariae flos* by acid hydrolysis and activation effect of tectoridin and tectorigenin on alcohol dehydrogenase ..... HU Yu-tao, MA Shuang-shuang, LIU Ying, *et al* (1266)
24. Antioxidant activity of water extract of Chinese herbs used for protecting spleen and nourishing stomach ..... WANG Zheng-fan (1271)
25. Protection effect of caffeic acid phenethyl ester on cadmium-induced mice cardiac damage ..... CHEN Fu-xin, GONG Pin, WANG Jing, *et al* (1274)
26. Effects of icariin on swimming endurance time and biochemical parameters after exhaustion of mice ..... ZANG Jie, LI Bao-ru, WU Tao, *et al* (1277)
27. Effects of gardenia extract on blood glucose and homocysteine of type 2 diabetic rats ..... ZHOU Rui-hua, WANG Hong-yu, LA Wang-ying, *et al* (1281)
28. Advance on bioactive secondary metabolites from marine symbiotic and epiphyte fungi in China ..... ZHANG Cui-xian, PENG Guang-tian, HE Xi-xin, *et al* (1284)
29. Development of the isolation, purification, structure and bioactivities of water-soluble glycyrrhiza polysaccharides ..... DAI Qiao-yu, KANG Ding, ZHANG Hong-bin (1292)
30. A review of phytochemistry and pharmacology of prenylated flavonoids from *Psoralea corylifolia* Linn. ..... GENG Ge-xia, HUANG You-wu, GUO Fu-jiang (1297)
31. Advances in studies on biological activity of *Eucommia ulmoides* Oliv. .... WANG Zhi-hong, PENG Sheng, LEI Ming-sheng, *et al* (1302)