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一、教学情况

生物制药工艺学(本科)、生物制品及药品检验(本科)、生物分离工程(研究生)、海洋生物活性物质制备工程技术(研究生)、生命科学导论(公选)

二、科研情况

(一) 发表论文

1. Wang Cong[†], **Guo Lei**[†], Hao Jiejie, Wang Liping, Zhu Weiming*. α -Glucosidase inhibitors from the marine-derived fungus *Aspergillus flavipes* HN4-13. *J Nat Prod*, 2016, 79:2977-2981. ([†] Co-first author)
2. **Guo Lei**^{*}, Wang Cong, Zhu Wencheng, Xu Fuquan. Bioassay-guided fractionation and identification of active substances from the fungus *Aspergillus tubingensis* against *Vibrio anguillarum*. *Biotechnol Biotech Eq*, 2016, 30(3): 602-606.
3. **Guo Lei**^{*}, Guo Jiakai, Zhu Wencheng, Jiang Xinru. Optimized synchronous extraction process of tea polyphenols and polysaccharides from Huaguoshan Yunwu tea and their antioxidant activities. *Food Bioprod Process*, 2016, 100:303-310.
4. Zhao Chengying[†], **Guo Lei**[†], Wang Liping, Zhu Guoliang, Zhu Weiming*. Improving the yield of (+)-terrein from the salt-tolerant *Aspergillus terreus* PT06-2. *World J Microb Biot*, 2016, 32:77. ([†] Co-first author)
5. **Guo Lei**^{*}, Huang Tao, Hu Bing, Wang Cong. Bioactivity-guided isolation and characterization of antitumor active compound from marine-derived fungus *Penicillium chrysogenum* HGQ6. *Adv J Food Sci Technol*, 2016, 10(5):353-355.
6. **Guo Lei**^{*}, Zhu Wencheng, Xu Fuquan, Liu Ming, Xie Yu, Zhang Jingmin. Optimized ultrasonic-assisted extraction of polysaccharides from *Cyclina sinensis* and evaluation of antioxidant activities in vitro, *CyTA J Food*, 2014, 12(1): 32-39.
7. **Guo Lei**^{*}, Zhu Wencheng, Zheng Anqi. Identification and fermentation optimization of an antibacterial *Aspergillus tubingensis* associated with the crab *Portunus triuberbuculatus*, *J Pure Appl Microbio*, 2014, 8(2): 1627-1633.
8. **Guo Lei**^{*}, Liu Yanli, Liu Chao. Evaluation of Antioxidative Properties of Various Extracts from *Cyclina sinensis*, *Adv J Food Sci Technol*, 2014, 6(4): 558-562.
9. Sun KL, Li Y, **Guo Lei**, Wang Y, Liu PP, Zhu WM*. Indole Diterpenoids and Isocoumarin from the Fungus, *Aspergillus flavus*, Isolated from the Prawn, *Penaeus vannamei*, *Mar Drugs*, 2014, 12(7): 3970-3981.
10. **Guo Lei**^{*}, Zhu Wencheng, Liu Yating, Wu Jiuyu, Zheng Anqi, Liu Yanli. Response surface optimized extraction of flavonoids from *Mimenghua* and its antioxidant activities in vitro, *Food Sci Biotechnol*, 2013, 22(5): 1285-1292.
11. **Guo Lei**^{*}, Zhu Wencheng, Liu Chao. Fermentation conditions optimization of anti-tumor active metabolites from marine *Penicillium* sp. HGQ6, *Adv Mater Res*, 2012, 340: 344-350.
12. **Guo Lei**^{*}, Gong Bangqiang. Isolation and identification of mPGES-1 expression inhibitor from *Craibiodendron yunnanense*, *Nat Prod Res Deve*, 2008, 20(5): 839-841.
13. **Guo Lei**, Hu Weirong, Lian Jihong, Ji Wei, Deng Ting, Qian Ming, Gong Bangqiang*. Anti-hyperlipidemic properties of CM108 (a flavone derivative) in vitro and in vivo, *Eur J Pharmacol*, 2006, 551(1-3): 80-86.
14. **Guo Lei**, Lian Jihong, Ji Wei, Hu Weirong, Wu Guolong, Gong Bangqiang*. Establishment of a cell-based drug screening system for identifying selective down-regulators of mPGES-1, *Inflamm Res*, 2006, 55(3): 114-118.
15. **郭雷**^{*}, 朱文成, 刘玮炜, 丁国伟, 张越乾, 张守禄, 邱月, 谢宇. 抗菌活性海洋真菌HN4-13的鉴定及其发酵优化, *微生物学通报*, 2013, 40(6): 951-958.

(二) 承担科研项目

1. 连云港市科技项目(产业前瞻与共性关键技术), CG1612, 海水养殖虾蟹育苗期弧菌病防治生物制剂开发的关键技术研究, 2016/11-2018/10
2. 连云港市第五期“521工程”科研项目, 海洋黄柄曲霉源大黄素-8-甲醚抗哈维氏弧菌的效应与作用机制研究, 2016/12-2018/12

3. 江苏省自然科学基金面上项目, BK20151283, 海洋黄柄曲霉源大黄素-8-甲醚抗水产病原哈氏弧菌的效应及作用机理研究, 2015/07-2018/06
4. 江苏省“海洋科学与技术”优势学科专项资金科研创新项目, 5511201401X-1, 海洋真菌水用抑菌活性化合物的发掘, 2015/05-2017/06, 3万元, 在研, 主持
5. 海洋动物源真菌*A. tubingenesis* SZX-6菌株抗水产病原菌活性物质研究(2014HS006), 江苏省海洋生物技术重点实验室开放基金, 2014.12-2016.12
6. 海洋黄柄曲霉HN4-13菌株抗水产病原菌活性次生代谢产物研究(MBSMAT-2013-04), 国家海洋局海洋生物活性物质与分析技术重点实验室开放基金, 2013.07-2015.06
7. 海洋真菌*Aspergillus flavipes* HN4-13抗肿瘤抗菌活性次生代谢产物的研究(KLMD (OUC) 201302), 教育部海洋药物重点实验室开放基金, 2013.01-2014.12
8. 海洋微生物抗水产病原菌活性次级代谢产物及其生防制剂的研制(CG1131), 连云港市农业科技攻关项目, 2011.11-2013.12

(三) 成果获奖情况

1. 连云港市第五期“521”工程第三层次培养对象
2. 2013年江苏省优秀毕业设计(论文)三等奖指导教师

(四) 专利情况

1. **郭雷**, 王聪, 许福泉. 利用海洋黄柄曲霉HN4-13菌株制备大黄素-8-甲醚的方法与用途, 公开号: CN104946693A.
2. **郭雷**, 朱文成, 许福泉, 刘玮炜, 陈丽. 塔宾曲霉SZX-6及其发酵液和发酵液提取物与用途, ZL201310065886.3
3. **郭雷**, 王淑军, 陆新龙, 陆博. 一种樱桃果酒的酿造方法, ZL201010534673.7

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