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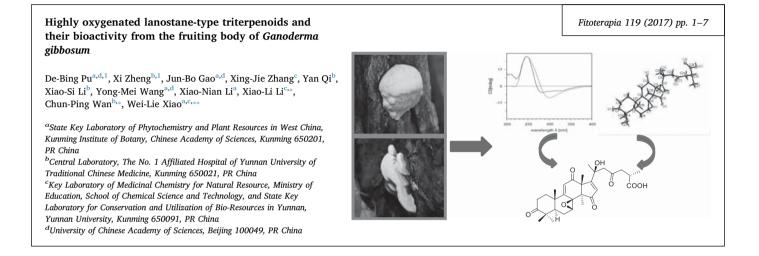
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Graphical Abstracts/Fitoterapia 119 (2017) e1-e9



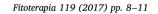
Three novel indole alkaloids from Kopsia officinalis

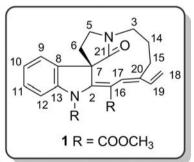
Zhi-Wei Wang^{a,a,1}, Xiao-Jian Shi^{b,1}, Yan Mu^a, Lei Fang^a, Yue Chen^a, Yun-Liang Lin^a

^aShandong Key Laboratory of TCM Quality Control Technology, Shandong Analysis and Test Center, Shandong Academy of Sciences, 19 Keyuan Street, Jinan, Shandong 250014, China
^bShanghai Institute of Materia Medica, Chinese Academy of

Sciences, Haike Road 501, Shanghai 201203, China



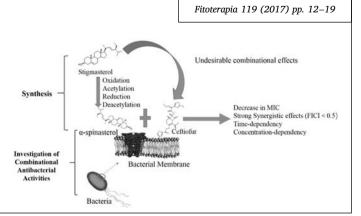




A novel method for synthesis of α -spinasterol and its antibacterial activities in combination with ceftiofur

Xiaomin Yang^a, Jianyu Zhou^a, Tao Wang^b, Ling Zhao^a, Gang Ye^a, Fei Shi^a, Yinglun Li^{a,,}, Huaqiao Tang^a, Qi Dong^a, Xuerong Zhou^a, Min Xu^a, Qian Rong^a, Helin Chen^a, Xiaoyu Yang^a, Yu Cai^a

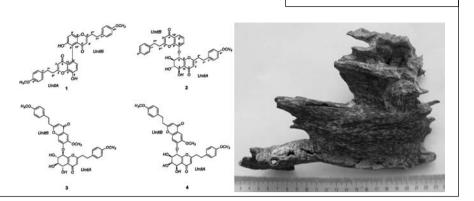
^aDepartment of Pharmacy, College of Veterinary Medicine, Sichuan Agricultural University, Chengdu, Sichuan 611130, China ^bChengdu Institute of Biology, Chinese Academy of Sciences, Chengdu 610041, China



Four new bi-2-(2-phenylethyl)chromone derivatives of agarwood from Aquilaria crassna

Yang Yang^a, Wen-Li Mei^b, Fan-Dong Kong^b, Hui-Qin Chen^b, Wei Li^b, Zhi-Bao Chen^{a,*}, Hao-Fu Dai^{b,**}

^aCollege of Life Science and Technology, Heilongjiang Bayi Agricultural University, Daqing 163319, China ^bKey Laboratory of Biology and Genetic Resources of Tropical Crops, Ministry of Agriculture, Institute of Tropical Bioscience and Biotechnology, Chinese Academy of Tropical Agricultural Sciences, Haikou 571101, China



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Inhibition of human CYP3A4 and CYP3A5 enzymes by gomisin C and gomisin G, two lignan analogs derived from *Schisandra chinensis*

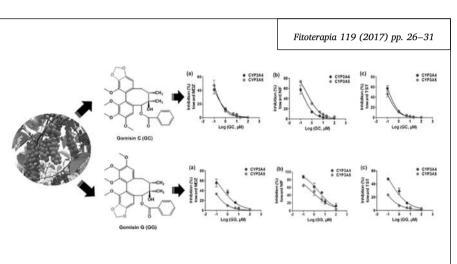
Jin Zhao^a, Tao Sun^b, Jing-Jing Wu^{c,d}, Yun-Feng Cao^{c,d,e}, Zhong-Ze Fang^{d,f}, Hong-Zhi Sun^d, Zhi-Tu Zhu^d, Kun Yang^f, Yong-Zhe Liu^f, Frank J. Gonzalez^g, Jun Yin^{a,*}

^aSchool of Traditional Chinese Medicine, Shenyang Pharmaceutical University, Shenyang 110016, China ^bDepartment of Breast Medicine, Liaoning Cancer Hospital & Institute, Shenyang 110042, China ^cDalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China.

^dKey Laboratory of Liaoning Tumor Clinical Metabolomics (KLLTCM), Jinzhou, Liaoning, China.

^eKey Laboratory of Contraceptives and Devices Research (NPFPC), Shanghai Engineer and Technology Research Center of Reproductive Health Drug and Devices, Shanghai Institute of Planned Parenthood Research, Shanghai, China ^fDepartment of Toxicology, School of Public Health, Tianjin Medical University, 22 Qixiangtai Road, Heping District, Tianjin 300070, China

⁸Laboratory of Metabolism, Center for Cancer Research, National Institutes of Health, Building 37, Room 3106, Bethesda, MD 20892, USA

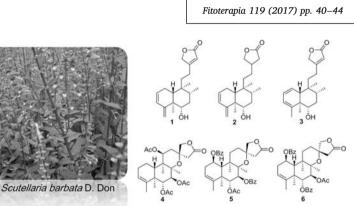


A new cineol derivative, polyphenols and Fitoterapia 119 (2017) pp. 32-39 norterpenoids from Saharan myrtle tea (Myrtus nivellei): Isolation, structure UHPLC-ESI-HRMS profile Myrtus nivellei leaves determination. quantitative decoction and and NMR analysis determination and antioxidant activity infusion Amira Mansour^a, Rita Celano^b, Teresa Mencherini^b, Patrizia Picerno^b, Anna Lisa Piccinelli^b, Yazid Foudil-Cherif^a, Dezső Csupor^c, Ghania Rahili^{d,e}, Nassima Yahi^e, Seyed Mohammad Nabavi^f, Rita Patrizia Aquino^b, Luca Rastrelli^{b,*} ^aUSTHB, University of Sciences and Technology Houari myricetin derivatives content Boumediene, Faculty of Chemistry, BP 32 El-Alia, Baband antioxidant activity Ezzouar, 16111, Algiers, Algeria ^bDipartimento di Farmacia, University of Salerno, Via Giovanni Paolo II, 132 84084 Fisciano, SA, Italy ^cUniversity of Szeged, Faculty of Pharmacy, Department of Pharmacognosy, 6720 Szeged, Eötvös u. 6, Magyarország, Hungarv ^dINRF National Institute of Forest Research, BP 37 Bainem, Algeria ^eUSTHB, University of Sciences and Technology Houari Boumediene, Faculty of Biological Sciences, BP 32 El-Alia, Bab-Ezzouar, 16111, Algiers, Algeria ^fApplied Biotechnology Research Center, Baqiyatallah University of Medical Sciences, P.O. Box 19395-5487, Tehran, Iran

Scubatines A-F, new cytotoxic *neo*-clerodane diterpenoids from *Scutellaria barbata* D. Don

Qing-Qing Yuan $^{\rm a,b},$ Wei-Bin Song
a, Wen-Qiong Wang $^{\rm a},$ Li-Jiang Xuan $^{\rm a,*}$

^aState Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 501 Haike Road, Shanghai 201203, PR China ^bUniversity of Chinese Academy of Sciences, No.19A Yuquan Road, Beijing 100049, PR China



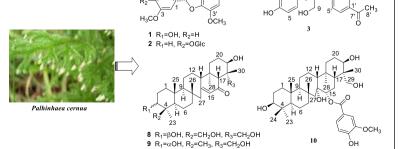
Fitoterapia 119 (2017) pp. 45-50

Neolignans and serratane triterpenoids with inhibitory effects on xanthine oxidase from *Palhinhaea cernua*

Jing Li^{a,b}, Ping-Sheng Xu^a, Lei-Hong Tan^b, Zhen-Xing Zou^{a,b}, Yi-Kun Wang^b, Hong-Ping Long^b, Gan Zhou^a, Guang Li^b, Kang-Ping Xu^{b,*}, Gui-Shan Tan^{a,b,**}

 $^{a} Xiangya$ Hospital of Central South University, Changsha 410008, PR China

^bXiangya School of Pharmaceutical Sciences, Central South University, Changsha 410013, PR China



Spatial profiling of maytansine during the germination process of Maytenus senegalensis seeds

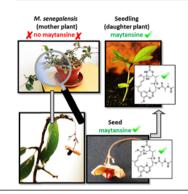
Dennis Eckelmann, Souvik Kusari*, Michael Spiteller*

Institute of Environmental Research (INFU), Department of Chemistry and Chemical Biology, Chair of Environmental Chemistry and Analytical Chemistry, TU Dortmund, Otto-Hahn-Straße 6, 44221 Dortmund, Germany

Natural isothiocyanates express antimicrobial activity against developing and mature biofilms of *Pseudomonas aeruginosa*

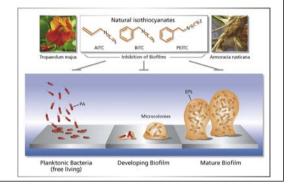
Stefan J. Kaiser¹, Nico T. Mutters¹, Brigitte Blessing, Frank Günther*

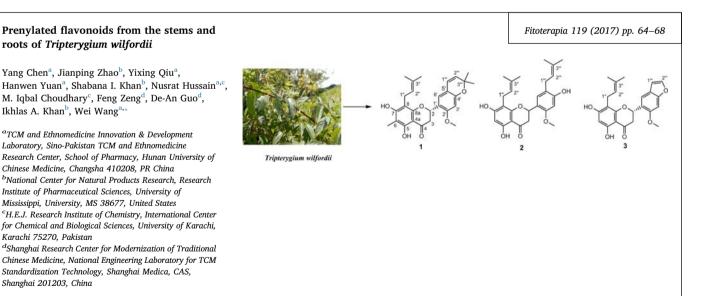
Heidelberg University Hospital, Department of Infectious Diseases, Germany



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Fitoterapia 119 (2017) pp. 57-63





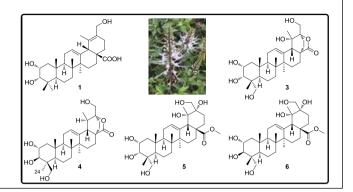
e4

New ursane-type triterpenoids from Clerodendranthus spicatus

Yong Luo^{a,b,1}, Li-Zhi Cheng^{b,c,1}, Qi Luo^{b,d,1}, Yong-Ming Yan^b, Shu-Mei Wang^c, Qin Sun^{a,*}, Yong-Xian Cheng^{b,*}

^aSouthwest Medical University, Luzhou 646000, PR China

^bState Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, PR China ^cGuangdong Pharmaceutical University, Guangzhou 5100069, PR China ^dUniversity of Chinese Academy of Sciences, Yuquan Road 19, Beijing 100049, PR China



Six new sesquiterpenoids from Nardostachys chinensis Batal

Xiu-yu Shen^a, Yang Yu^b, Guo-dong Chen^b, Hua Zhou^c, Jin-fang Luo^c, Yi-han Zuo^c, Xin-sheng Yao^{a,b,*}, Yi Dai^{b,**}

^aCollege of Traditional Chinese Materia Medica, Shenyang Pharmaceutical University, Shenyang 110016, People's Republic of China

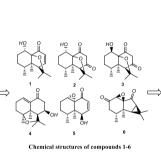
^bInstitute of Traditional Chinese Medicine and Natural Products, College of Pharmacy, Jinan University, Guangzhou 510632, People's Republic of China

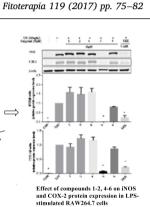
^cKey Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology, Macau 999078, People's Republic of China

antidiabetic activities



Nardostachys chinensis Batal (Valerianaceae)





New amides from seeds of Silybum marianum with potential antioxidant and Fitoterapia 119 (2017) pp. 83–89

Ning-bo Qin^{a,b}, Cui-cui Jia^{a,b}, Jun Xu^{a,b}, Da-hong Li^{a,b}, Fan-xing Xu^c, Jiao Bai^{a,b}, Zhan-lin Li^{a,b,s}, Hui-ming Hua^{a,b,s}

^aKey Laboratory of Structure-Based Drug Design & Discovery, Ministry of Education, Shenyang Pharmaceutical University, Shenyang 110016, Liaoning, People's Republic of China

^bSchool of Traditional Chinese Materia Medica, Shenyang Pharmaceutical University, Shenyang 110016, Liaoning, People's Republic of China

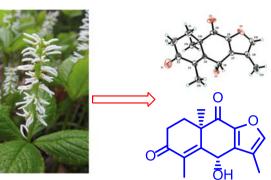
^cWuya College of Innovation, Shenyang Pharmaceutical University, Shenyang 110016, Liaoning, People's Republic of China



Chlorajaponols A–F, sesquiterpenoids from Chloranthus japonicus and their in vitro anti-inflammatory and anti-tumor activities Zhi-Guo Zhuo^{a,1}, Guo-Zhen Wu^{a,1}, Xin Fang^a, Xin-Hui Tian^a, Hong-Yuan Dong^a, Xi-Ke Xu^a, Hui-Liang Li^a, Ning Xie^c, Wei-Dong Zhang^{a,b,*}, Yun-Heng Shen^{a,***} ^aDepartment of Phytochemistry, School of Pharmacy, Second Military Medical University, Shanghai 200433, PR China

^bShanghai 200433, PR China ^bShanghai Institute of Pharmaceutical Industry, Shanghai 200433, PR China

^cState Key Laboratory of Innovative Natural Medicine and TCM Injections, PR China



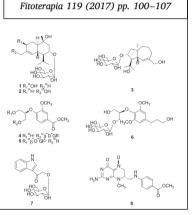
Chemical constituents from the whole plants of Pilea cavaleriei Levl subsp. cavaleriei

Yong Zhou^{a,b}, Ling-Yu Li^c, Heng-Chun Ren^a, Ri-Dong Qin^a, Qin Li^a, Peng-Fei Tu^a, Gui-Fang Dou^b, Qing-Ying Zhang^{a,*}, Hong Liang^{a,*}

^aState Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University Health Science Center, Beijing 100191, PR China

^bState Key Laboratory of Drug Metabolism, Laboratory of Hematological Pharmacology, Beijing Institute of Transfusion Medicine, Beijing 100850, PR China

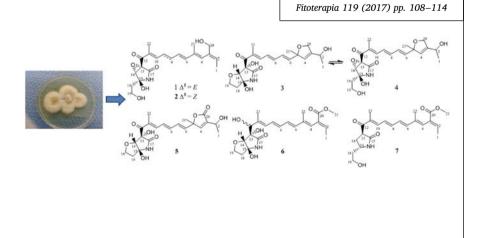
^cInstitute of Medicinal Plant Development, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing 100193, PR China

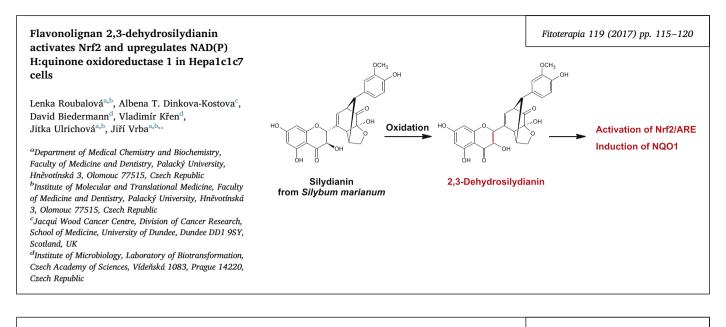


Antibacterial secondary metabolites from an endophytic fungus, *Fusarium solani* JK10

James Oppong Kyekyeku^{a,b}, Souvik Kusari^{b,}, Reimmel Kwame Adosraku^a, Anke Bullach^b, Christopher Golz^c, Carsten Strohmann^c, Michael Spiteller^{b,}

^aDepartment of Pharmaceutical Chemistry, Faculty of Pharmacy and Pharmaceutical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana ^bInstitute of Environmental Research (INFU), Department of Chemistry and Chemical Biology, Chair of Environmental Chemistry and Analytical Chemistry, TU Dortmund, Otto–Hahn–Straße 6, 44221 Dortmund, Germany ^cInorganic Chemistry, Department of Chemistry and Chemical Biology, TU Dortmund, Otto–Hahn–Straße 6, D–44221 Dortmund, Germany

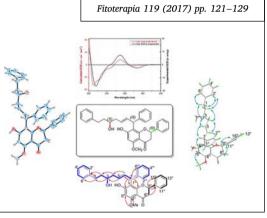




Experimental and theoretical calculation studies on the structure elucidation and absolute configuration of calyxins from *Alpinia katsumadai*

Xiao-Bing Wang^a, Chang-Shui Yang^{a,b,c}, Jian-Guang Luo^a, Chao Zhang^a, Jun Luo^a, Ming-Hua Yang^a, Ling-Yi Kong^{a,s}

^aState Key Laboratory of Natural Medicines, Department of Natural Medicinal Chemistry, China Pharmaceutical University, 24 Tong Jia Xiang, Nanjing 210009, PR China ^bMedical school, Yangzhou University, 11 Huaihai Ave., Yangzhou 225001, PR China ^cJiangsu Co-innovation Center for Prevention and Control of Important Animal Infectious Diseases and Zoonoses, Yangzhou University, 88 South University Ave., Yangzhou 225009, PR China



Triterpenoids and iridoids from Patrinia scabiosaefolia

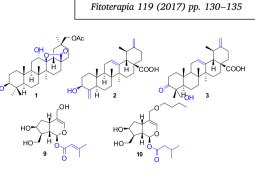
Zhen-Hua Liu^{a,b,c}, Rui-Jing Ma^{a,b,c}, Liu Yang^{a,c}, Jin-Yu Li^{a,b,c}, Bo Hou^{a,b,c}, Jiang-Miao Hu^{a,c,*}, Jun Zhou^{a,c,*}

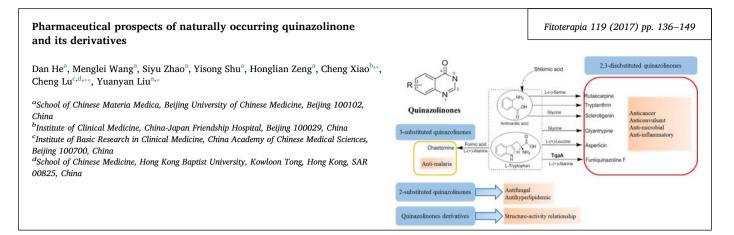
^aState Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, People's Republic of China

^bUniversity of Chinese Academy of Sciences, Beijing 100049, People's Republic of China

^cYunnan Key Laboratory of Natural Medicinal Chemistry, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, People's Republic of China



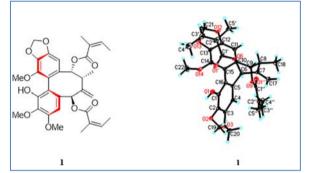




Dibenzocyclooctadiene lignans from Kadsura heteroclita

Yuan-Qing Luo^{a,b}, Miao Liu^{a,b}, Jin Wen^c, Wei-Guang Wang^a, Kun Hu^{a,b}, Xiao-Nian Li^a, Xue Du^a, Jian-Xin Pu^{a,*}, Han-Dong Sun^{a,*}

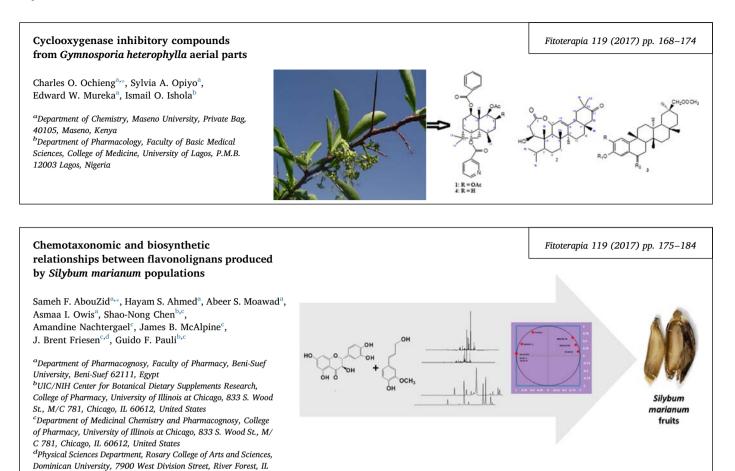
^aState Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, Yunnan, People's Republic of China ^bUniversity of the Chinese Academy of Sciences, Beijing 100049, People's Republic of China ^cYunnan Academy of Forest Sciences Institute of Tropical Forestry, Kunming 650204, People's Republic of China



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Ecdysterones from Rhaponticum carthamoides (Willd.) Iljin reduce Fitoterapia 119 (2017) pp. 158-167 hippocampal excitotoxic cell loss and upregulate mTOR signaling in rats Docked well Molecular docking MDs simulation In silico analysis Stably binded Jiming Wu^a, Le Gao^a, Lei Shang^b, Guihua Wang^a, Nana Wei^a, Tiantian Chu^a, PPI network construction Well constructed Suping Chen^a, Yujun Zhang^a, Jian Huang^{a,*}, Jinhui Wang^{a,c,**}, Ruichao Lin^{a,d,***} ^aSchool of Traditional Chinese Materia Medica, Key Laboratory of Structure-Based Drug Design & Discovery of Ministry of Education, Shenyang Pharmaceutical University, Shenyang 110016, China Neuroprotective ^bCollege of Basic Medical Science, Shenyang Medical College, Shenyang 110034, China Effect ^cCollege of Pharmacy, Shihezi University, Shihezi 832002, China ^dSchool of Traditional Chinese Materia Medica, Beijing University of Chinese Medicine, Beijing 100029, China Amelioration Histopathological examination Experimental validation LDH activity LDH activity Western blot GRIN2B

60305, United States



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