

特别关注:

“雷公藤合理用药研究”专刊

雷公藤的临床有效性已得到业内公认，其安全合理用药也成为领域内亟需解决的问题。该专刊集中报道了雷公藤的临床应用、药理毒理、药效物质、资源与鉴定及分子生物学等多方面的阶段性研究成果和发展前景，旨在促进多学科协同创新，为雷公藤临床合理用药的深入研究提供科学参考，对中医药事业健康持续发展也具有重要的现实意义和示范推广价值。

中国
药
杂
志

China Journal of
Chinese Materia Medica

第44卷 第16期
Vol. 44 No. 16

2019/16

中国中文核心期刊
中国科技核心期刊
CSCD来源期刊



关注杂志官方微信

万方数据

中国药学会
CHINESE PHARMACEUTICAL ASSOCIATION



目次

·专家述评·

协同创新,助力中药安全合理用药

肖小河,刘昌孝 (3365)

·综述·

雷公藤制剂的化学成分及质量研究现状

王亚丹,汪祺,张建宝,戴忠,林娜,吴先富,马双成 (3368)

雷公藤对免疫系统作用及机制研究进展

农程,王欣之,江振洲,张陆勇 (3374)

雷公藤及其提取物对类风湿关节炎固有免疫系统调节的研究进展

李剑明,姜泉,唐晓颇,杨卉,周志强 (3384)

雷公藤甲素单用及联合用药抗肿瘤的作用及机制研究进展

石金凤,罗尧尧,李佳鑫,罗锐锋,陈梁,李杰,章津铭,傅超美 (3391)

近 20 年来雷公藤肝毒性研究概述

田雅格,苏晓慧,刘立玲,孔祥英,林娜 (3399)

近 40 年雷公藤生殖毒性研究概述

徐颖,樊媛芳,赵元,林娜 (3406)

·药理与毒理·

基于转录组数据挖掘和生物分子网络分析整合的雷公藤多苷片治疗类风湿关节炎疗效标志的发现研究

王晓月,王海隆,毛霞,李光耀,郭秋岩,李玮婕,郭敏群,姜泉,张彦琼,林娜 (3415)

雷公藤甲素对血管性痴呆大鼠认知功能的影响及对 SIRT1/NF- κ B 信号通路的作用

姚鹏,陈勇,徐国海 (3423)

雷公藤甲素通过 PI3K/AKT/mTOR 通路诱导卵巢颗粒细胞自噬的实验研究

白俊,吴也可,吴克明,朱虹丽,李楠,陈梅,刘丽秀 (3429)

甘草炮制雷公藤对 DSS 诱导溃疡性结肠炎小鼠的抗炎及免疫调节作用

吴昊,章从恩,于小红,马光朝,王伽伯,马致洁,赵奎君 (3435)

雷公藤多苷片抑制实验性类风湿关节炎血管新生的作用研究

王靖霞,刘春芳,李逸群,苏晓慧,刘立玲,田雅格,王金霞,贾可欣,林娜 (3441)

雷公藤甲素对艾滋病免疫反应通路影响的生物信息学分析

李立,何小鹏,张弛,赵宁,吕诚 (3448)

甘草炮制对雷公藤治疗窗的影响:以变应性接触性皮炎为例

于小红,董捷鸣,吴昊,王伽伯,马致洁,章从恩 (3454)

基于网络药理学的雷公藤效毒作用机制研究

董一珠,张冰,林志健,张晓朦 (3460)

雷公藤多苷与等量雷公藤甲素所致肝脏毒性差异及分子机制探究

缪莹莹,罗岚,舒婷,汪豪,江振洲,张陆勇 (3468)

基于高通量转录组测序的菟丝子黄酮改善雷公藤多苷片致大鼠生殖损伤的机制研究	
张博, 苏杭, 任献青, 李伟霞, 丁樱, 张霞, 翟文生, 宋纯东	(3478)
雷公藤多苷片对Ⅱ型胶原诱导性关节炎雌性大鼠生殖毒性的影响	
樊媛芳, 徐颖, 苏晓慧, 刘立玲, 田雅格, 赵元, 孔祥英, 林娜	(3486)
6个不同厂家雷公藤多苷片致小鼠急性肝损伤的比较研究及机制探索	
刘春芳, 张晶璇, 李逸群, 李春, 朱宣萱, 贾可欣, 王金霞, 王靖霞, 樊媛芳, 徐颖, 王停, 林娜	(3494)
雷公藤多苷片和雷公藤片对CIA模型大鼠干预的量毒效比较研究	
刘立玲, 田雅格, 苏晓慧, 樊媛芳, 李春, 朱宣萱, 曹炜, 刘婷, 王海林, 徐颖, 孔祥英, 林娜	(3502)
雷公藤配伍甘草减毒作用动物实验的系统评价	
李慧珍, 刘斌, 舒海洋, 袁瑞丽, 纪鑫毓, 胡晗, 孟乡, 刘玉祁, 史楠楠, 王燕平, 吕诚	(3512)
·临床·	
雷公藤甲素通过调控VEGFA, SDF-1, CXCR4通路改善强直性脊柱炎患者血小板活化的机制	
方妍妍, 万磊, 董文哲, 文建庭, 刘健	(3520)
基于数据挖掘研究雷公藤多苷片联合中药对类风湿关节炎患者免疫炎症肝肾功能的影响	
董文哲, 刘健, 忻凌, 方妍妍, 文建庭	(3526)
雷公藤多苷(甙)片单用或联合甲氨蝶呤对类风湿关节炎临床表现改善作用的Meta分析	
王晓月, 李泰贤, 薛志鹏, 吕诚, 李慧珍, 樊媛芳, 李逸群, 田雅格, 杨俊, 陈文佳, 郭敏群, 王靖霞, 吴红艳, 张彦琼, 林娜	(3533)
雷公藤多苷(甙)片单用或联合甲氨蝶呤治疗类风湿关节炎实验室指标改善作用的Meta分析	
李泰贤, 王晓月, 薛志鹏, 吕诚, 李慧珍, 樊媛芳, 李逸群, 田雅格, 杨俊, 陈文佳, 郭敏群, 王靖霞, 吴红艳, 陈卫衡, 张彦琼, 林娜	(3542)
雷公藤多苷片联合地氯雷他定治疗慢性荨麻疹疗效和安全性的Meta分析	
石岩硕, 王祁民, 邱学佳, 庞国勋	(3551)
雷公藤多苷片联合中药对儿童成年后生育能力影响的远期随访	
姜森, 韩珊珊, 张霞, 任献青, 宋纯东, 翟文生, 郭庆寅, 张建, 杨濛, 丁樱	(3558)
·药代动力学·	
基于UPLC-Q-TOF-MS的雷公藤红素的代谢组学研究	
张婷, 王义坤, 赵琦, 肖雪蓉, 李飞	(3562)
基于微透析技术的雷公藤白芍微乳凝胶皮肤和血液药物动力学研究	
杜清, 罗晶, 管咏梅, 肖芳, 臧振中, 金晨, 陈丽华	(3569)
基于HPLC-MS/MS检测雷公藤甲素在体微透析方法的建立	
管咏梅, 刘佳, 余雅婷, 朱卫丰, 陈丽华, 金晨, 臧振中	(3576)
·资源与鉴定·	
独脚金内酯类似物GR24对雷公藤悬浮细胞中二萜类次生代谢产物累积的影响	
吴晓毅, 张睿, 马允, 孟令嘉, 屠李婵, 胡添源, 高伟	(3582)
·分子生药学·	
雷公藤中一个合成香茅醇的单萜合酶基因的克隆与表征	
尹艳, 郭思远, 向安娅, 李桂林, 高伟, 张夏楠	(3588)
雷公藤CYP450生物信息学及组织分布分析	
高杰, 张逸风, 周家伟, 吴晓毅, 高伟, 黄璐琦	(3594)

本期责任编辑:马超一



CONTENTS IN BRIEF

Collaborative innovation boosting the safe and rational use of traditional Chinese medicines

XIAO Xiao-he, LIU Chang-xiao (3365)

Research progress on chemical constituents and quality control of *Tripterygium wilfordii* preparations

WANG Ya-dan, WANG Qi, ZHANG Jian-bao, DAI Zhong, LIN Na, WU Xian-fu, MA Shuang-cheng (3368)

Progress of effect and mechanisms of *Tripterygium wilfordii* on immune system

NONG Cheng, WANG Xin-zhi, JIANG Zhen-zhou, ZHANG Lu-yong (3374)

Study advances in regulation effect of *Tripterygium wilfordii* and its extracts on innate immune system in rheumatoid arthritis cases

LI Jian-ming, JIANG Quan, TANG Xiao-po, YANG Hui, ZHOU Zhi-qiang (3384)

Research progress on anti-tumor effects and mechanisms of triptolide and its combined application

SHI Jin-feng, LUO Yao-yao, LI Jia-xin, LUO Rui-feng, CHEN Liang, LI Jie, ZHANG Jin-ming, FU Chao-mei (3391)

Overview of hepatotoxicity studies on *Tripterygium wilfordii* in recent 20 years

TIAN Ya-ge, SU Xiao-hui, LIU Li-ling, KONG Xiang-ying, LIN Na (3399)

Overview of reproductive toxicity studies on *Tripterygium wilfordii* in recent 40 years

XU Ying, FAN Yuan-fang, ZHAO Yuan, LIN Na (3406)

Identification of biomarkers to response of Tripterygium Glycosides Tablets acting on rheumatoid arthritis by integrating transcriptional data mining and biomolecular network analysis

WANG Xiao-yue, WANG Hai-long, MAO Xia, LI Guang-yao, GUO Qiu-yan, LI Wei-jie, GUO Min-qun, JIANG Quan, ZHANG Yan-qiong, LIN Na (3415)

Effect of triptolide on cognitive dysfunction in vascular dementia rats through SIRT1/NF- κ B signaling pathway

YAO Peng, CHEN Yong, XU Guo-hai (3423)

Triptolide induces autophagy of ovarian granulosa cells via PI3K/AKT/mTOR pathway

BAI Jun, WU Ye-ke, WU Ke-ming, ZHU Hong-li, LI Nan, CHEN Mei, LIU Li-xiu (3429)

Anti-inflammatory and immunomodulatory effects of *Tripterygium wilfordii* processed with licorice on mice model of ulcerative colitis

WU Hao, ZHANG Cong-en, YU Xiao-hong, MA Guang-chao, WANG Jia-bo, MA Zhi-jie, ZHAO Kui-jun (3435)

Effect of Tripterygium Glycosides Tablets on synovial angiogenesis in rats with type II collagen induced arthritis

WANG Jing-xia, LIU Chun-fang, LI Yi-qun, SU Xiao-hui, LIU Li-ling, TIAN Ya-ge, WANG Jin-xia, JIA Ke-xin, LIN Na (3441)

Bioinformatics analysis on immune response pathways of triptolide in treating AIDS

LI Li, HE Xiao-juan, ZHANG Chi, ZHAO Ning, LYU Cheng (3448)

Therapeutic window analysis of *Tripterygium wilfordii* processed by liquorice: an instantiation using allergic contact dermatitis

YU Xiao-hong, DONG Jie-ming, WU Hao, WANG Jia-bo, MA Zhi-jie, ZHANG Cong-en (3454)

Pharmacodynamic effect and virulent effect of *Tripterygium wilfordii* based on network pharmacology

DONG Yi-zhu, ZHANG Bing, LIN Zhi-jian, ZHANG Xiao-meng (3460)

Study on difference of liver toxicity and its molecular mechanisms caused by *Tripterygium wilfordii* multiglycoside and equivalent amount of triptolid in rats

MIAO Ying-ying, LUO Lan, SHU Ting, WANG Hao, JIANG Zhen-zhou, ZHANG Lu-yong (3468)

Study on mechanism of Cuscutae Semen flavonoids in improving reproductive damage of Tripterygium Glycosides Tablets in rats based on high-throughput transcriptome sequencing	
ZHANG Bo, SU Hang, REN Xian-qing, LI Wei-xia, DING Ying, ZHANG Xia, ZHAI Wen-sheng, SONG Chun-dong ...	(3478)
Effect of Tripterygium Glycosides Tablets on reproductive toxicity in female rats with II type collagen induced arthritis	
FAN Yuan-fang, XU Ying, SU Xiao-hui, LIU Li-ling, TIAN Ya-ge, ZHAO Yuan, KONG Xiang-ying, LIN Na	(3486)
Effects of Tripterygium Glycosides Tablets from 6 different manufacturers on acute liver injury of normal mice	
LIU Chun-fang, ZHANG Jing-xuan, LI Yi-qun, LI Chun, ZHU Xuan-xuan, JIA Ke-xin, WANG Jin-xia, WANG Jing-xia, FAN Yuan-fang, XU Ying, WANG Ting, LIN Na	(3494)
Comparative study on dose-toxicity-effect of Tripterygium Glycosides Tablets and Tripterygium wilfordii Tablets on CIA model rats	
LIU Li-ling, TIAN Ya-ge, SU Xiao-hui, FAN Yuan-fang, LI Chun, ZHU Xuan-xuan, CAO Wei, LIU Ting, WANG Hai-lin, XU Ying, KONG Xiang-ying, LIN Na	(3502)
Toxicity-reducing effect of compatibility of <i>Tripterygium</i> and licorice in animals: systematic review	
LI Hui-zhen, LIU Bin, SHU Hai-yang, YUAN Rui-li, JI Xin-yu, HU Han, MENG Xiang, LIU Yu-qi, SHI Nan-nan, WANG Yan-ping, LYU Cheng	(3512)
Effect of triptolide in improving platelet activation in patients with ankylosing spondylitis by regulating VEGFA, SDF-1, CXCR4 pathway	
FANG Yan-yan, WAN Lei, DONG Wen-zhe, WEN Jian-ting, LIU Jian	(3520)
Effect of Tripterygium Glycosides Tablets on immune-induced liver and kidney function in patients with rheumatoid arthritis based on data mining	
DONG Wen-zhe, LIU Jian, XIN Ling, FANG Yan-yan, WEN Jian-ting	(3526)
Clinical symptoms effect of Tripterygium Glycosides Tablets alone or combined with methotrexate in treatment of rheumatoid arthritis: a Meta-analysis	
WANG Xiao-yue, LI Tai-xian, XUE Zhi-peng, LYU Cheng, LI Hui-zhen, FAN Yuan-fang, LI Yi-qun, TIAN Ya-ge, YANG Jun, CHEN Wen-jia, GUO Min-qun, WANG Jing-xia, WU Hong-yan, ZHANG Yan-qiong, LIN Na	(3533)
Meta-analysis of laboratory index of Tripterygium Glycosides Tablets in treatment of rheumatoid arthritis	
LI Tai-xian, WANG Xiao-yue, XUE Zhi-peng, LYU Cheng, LI Hui-zhen, FAN Yuan-fang, LI Yi-qun, TIAN Ya-ge, YANG Jun, CHEN Wen-jia, GUO Min-qun, WANG Jing-xia, WU Hong-yan, CHEN Wei-heng, ZHANG Yan-qiong, LIN Na	(3542)
Meta-analysis of efficacy and safety of Tripterygium Glycosides Tablets combined with desloratadine in treatment of chronic urticarial	
SHI Yan-shuo, WANG Qi-min, QIU Xue-jia, PANG Guo-xun	(3551)
Long-term effect of Tripterygium Glycosides Tablets combined with traditional Chinese medicine on adulthood fertility	
JIANG Miao, HAN Shan-shan, ZHANG Xia, REN Xian-qing, SONG Chun-dong, ZHAI Wen-sheng, GUO Qing-yin, ZHANG Jian, YANG Meng, DING Ying	(3558)
UPLC-Q-TOF-MS-based metabolomics study of celastrol	
ZHANG Ting, WANG Yi-kun, ZHAO Qi, XIAO Xue-rong, LI Fei	(3562)
Pharmacokinetics of skin and blood of <i>Tripterygium wilfordii</i> and <i>Paeonia lactiflora</i> micro-emulsion gel based on micro-dialysis technology	
DU Qing, LUO Jing, GUAN Yong-mei, XIAO Fang, ZANG Zhen-zhong, JIN Chen, CHEN Li-hua	(3569)
Establishment of skin and joint micro-dialysis sampling method of triptolide <i>in vivo</i> by HPLC-MS/MS	
GUAN Yong-mei, LIU Jia, YU Ya-ting, ZHU Wei-feng, CHEN Li-hua, JIN Chen, ZANG Zhen-zhong	(3576)
Effect of GR24 on accumulation of diterpenoids in <i>Tripterygium wilfordii</i> suspension cells	
WU Xiao-yi, ZHANG Rui, MA Yun, MENG Ling-jia, TU Li-chan, HU Tian-yuan, GAO Wei	(3582)
Cloning and characterization of a monoterpene synthase gene from <i>Tripterygium wilfordii</i>	
YIN Yan, GUO Si-yuan, XIANG An-ya, LI Gui-lin, GAO Wei, ZHANG Xia-nan	(3588)
Bioinformatics and tissue distribution analysis of <i>Tripterygium wilfordii</i> CYP450	
GAO Jie, ZHANG Yi-feng, ZHOU Jia-wei, WU Xiao-yi, GAO Wei, HUANG Lu-qi	(3594)

ZHONGGUO ZHONGYAO ZAZHI

第44卷 第16期

Vol. 44 No. 16

2019/16

中国
中药杂志
CHINA JOURNAL OF CHINESE MATERIA MEDICA

主 编 张伯礼
主 管 中国科学技术协会
主 办 中国药学会
编辑出版 中国中药杂志编辑部
地 址 北京市东直门内南小街16号
邮 编 100700
电 话 (010) 64087589
网 址 <http://www.cjcmm.com.cn>
邮 箱 cjcmm2006@188.com
图文制作 同方知网(北京)技术有限公司
封面设计 北京午未创意文化传媒有限公司
印 刷 山西同方知网印刷有限公司
国内外发行 同方知网(北京)技术有限公司
订 阅 同方知网(北京)技术有限公司
出版日期 2019年8月15日
标准刊号 ISSN 1001-5302 CN 11-2272/R
国内定价 每期50元, 全年1200元

Editor-in-Chief

ZHANG Bo-li

Responsible Institution

China Association for Science and Technology

Sponsored by

Chinese Pharmaceutical Association

Address: 16 Nanxiaoje, Inner Dongzhimen Beijing 100700, China

Tel: (010) 64087589

E-mail: cjcmm2006@188.com

<http://www.cjcmm.com.cn>

Graphics produced by

Tongfang Knowledge Network Technology Co., Ltd (Beijing)

Printed by

Shanxi Tongfang Knowledge Network Printing Co., Ltd.

Overseas Distributor

Tongfang Knowledge Network Technology Co., Ltd. (Beijing)

Publication Date

August 15, 2019

ISSN 1001-5302 CN 11-2272/R

ISSN 1001-5302



国内定价: 50.00元