

中国科技核心期刊

中国学术期刊综合评价数据库统计源期刊

ISSN 2095-1116

CN 43-1509/R

Medical Science Journal of Central South China

中南医学科学杂志

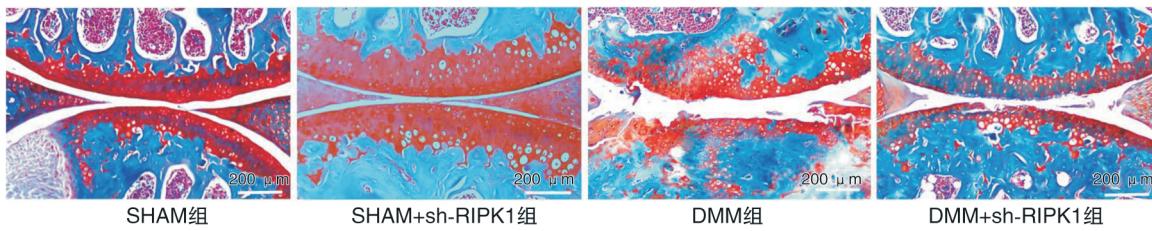
Zhongnan Yixue Kexue Zazhi

敲低RIPK1抑制软骨细胞衰老水平延缓OA病理进展

梁爽¹, 鲁锐¹, 何直益¹, 何琰泽², 杨卿¹

1.华中科技大学同济医学院附属同济医院骨科, 湖北武汉430000;

2.随州职业技术学院医学院, 湖北随州441300



ISSN 2095-1116



9 772095 111237



2023年3月

第2期
第51卷

中南医学科学杂志

ZHONGNAN YIXUE KEXUE ZAZHI

双月刊

1973 年创刊

第 51 卷第 2 期

2023 年 3 月出版

主管

湖南省教育厅

主办

南华大学

学术支持单位

衡阳市中心医院

编辑出版

《中南医学科学杂志》编辑部

地址：湖南省衡阳市，南华大学内

邮政编码：421001

电话：0734-8160781

E-mail：znyxkxzz@vip.163.com

网址：<http://nhqks.cnjournals.com/yx/>

主编

文格波

副主编

吴移谋 姜志胜

雷小勇 容益康

编辑部主任

李小玲

广告经营许可证号

4304047440022

印 刷

长沙市和一印刷设备有限公司

发 行

国内：中国邮政集团公司湖南省报刊发行局

国外：中国国际图书贸易集团有限公司
(中国北京 399 信箱, 100044)

订 购

全国各地邮局

邮发代号：国内 42-396

国外 Q4353

邮 购

《中南医学科学杂志》编辑部

定 价

每期 10 元, 全年 60 元

国际标准连续出版物号

ISSN 2095-1116

国内统一连续出版物号

CN 43-1509/R

本刊若有印刷和装订质量问题,
请向编辑部对换。

目 次

· 骨关节专栏 ·

- 骨关节炎：一个持续存在的挑战 魏福, 陈志伟(157)
敲低 RIPK1 抑制软骨细胞衰老水平延缓 OA 病理进展 梁爽, 鲁锐, 何直益, 何琰泽, 杨卿(161)
膝关节 OA 关键基因及软骨组织免疫细胞浸润的生物信息学分析 翟港港, 梁夏铭, 岳颂凯, 江晨阳, 董永辉, 郑稼(166)
MGT 与 MRT 在全膝关节置换术中的应用 谭清山, 陈志伟, 陈魏, 金奉天, 张润民, 李辉云, 冉讯(170)
前交叉韧带损伤后炎症因子致膝关节创伤后骨关节炎的研究进展 李杨涛, 崔俊成, 李金鑫, 吴京成, 唐凌云(174)

· 基础医学 ·

- 慢性间歇性缺氧合并肥胖通过内质网应激导致小鼠肾脏损伤 刘承雨, 王一成, 何嫣婕, 何美娟, 黄汉鹏(178)
沙眼衣原体多表位疫苗的构建及其抗感染保护作用 刘辉萍, 李舒怡, 陈合意, 陈超群(183)
沉默 circROBO1 通过下调 KRAS 抑制鼻咽癌 CNE2 细胞侵袭与肺转移 文玲波, 孙丕云, 罗琴, 肖娟(188)
猪实子对肝星状细胞增殖、凋亡及 TLR4/NF- κ B/TNF- α 信号通路的影响 杨文秀, 陈向穗, 宫凤英, 林捷(193)
circ_0000069 靶向 miR-338-3p 对非小细胞肺癌 A549 细胞增殖、迁移和侵袭的影响 张伟, 刘青春, 张潍, 饶汕, 王辉, 陈奕戈, 米卫国(197)
miR-33a 基于 Notch 信号通路对幼年哮喘小鼠 Th17/Treg 细胞平衡的影响 程静, 年瑞, 李万军(202)

· 临床医学 ·

- 2007 年—2021 年湖南省 AHC 流行特征及时空聚集性分析 姜泽鑫, 常雪晴, 朱文轩, 朱琼, 谢颖豪, 吴成秋, 刘富强(206)
布托啡诺经鼻给药对全麻诱导期舒芬太尼诱发呛咳反应的预防作用 杨浩, 孔高茵, 阳颖, 王逸伦, 凌英姿, 潘冰冰(210)
难治性癫痫患儿血清 lncRNA NKILA、miR-124 表达及临床意义 郑宇霞, 李亚玲, 沈璟, 周玲, 段丽芬(214)
MTHFR C677T 基因多态性与脑梗死 CISS 分型及脑侧支循环的关系 玄丽慧, 陈应柱, 闫丽丽, 王茜, 李雪梅, 冯玉婧, 孟艳红, 杨娜(218)

沙库巴曲缬沙坦对扩张型心肌病心力衰竭患者心室重构和心脏功能的影响	刘菲, 杨文灿(222)
卵巢子宫内膜样囊肿患者血清 MLR、PLR、CA125 的变化及临床意义	李婷娜, 韦秋园, 王晓暖, 韩一栩(226)
PGE1 联合 PHC 对先心病患儿 CPB 手术围术期炎症因子的影响	韦晓林, 游志坚(229)
Smo、Gli2 及 FoxM1 对神经胶质瘤诊断和预后的评估价值	肖仕和, 李钢, 周奋, 刘珍, 刘仲海(234)
血清 miR-222、miR-874-3p 和 miR-27a 联合诊断多囊卵巢综合征的应用价值	王景娜, 焦保权(238)
白内障伴青光眼患者术后胰岛素抵抗及炎症因子水平与视觉质量的关系	蔡业海, 刘伟仙, 卓业辉, 黄丽珍(242)
认知矫正联合常规药物治疗双相情感障碍患者疗效及对 TBIL、UA 和 BDNF 的影响	张振学, 王佳慧(246)
宫颈扩张球囊和缩宫素对足月妊娠促宫颈成熟和分娩结局的影响	陈雨凤, 杨小蕾, 李蓓(250)
卵巢子宫内膜样囊肿的影响因素分析及对卵巢功能、妊娠结局的影响	李娟, 顾笑梅, 赵金珩(254)
利那洛肽联合 PEG 在慢性便秘患者肠道准备中的应用	郑毓英, 吕志武(257)
替宁胶囊联合辛伐他汀治疗高龄男性 ASCVD 的疗效及对 TGF-β1-Smad2/3 通路的影响	廖艳林, 朱浩, 朱根源, 陈慧敏, 刘鹏, 明冠(261)
血清胆碱酯酶联合乳酸清除率对感染性休克患者预后的预测价值	曹磊, 李晓倩(265)
利拉鲁肽和艾塞那肽对 2 型糖尿病患者血糖及胃肠道反应的影响	金晨, 刘慧慧, 孙颖, 申彩霞(269)
Th17/Treg 平衡对慢性丙型肝炎病毒感染患者抗病毒治疗的指导价值	孔德娜, 宋乐, 沈贵月(273)
RIG-I、USP5 在卵巢上皮性癌组织中的表达水平及预后意义	齐曼, 芦秋彤, 刘少卿, 张娟, 崔艳萍, 刘咏梅(277)
外周血 RBP 与 β2M 联合检测对 2~4 期慢性肾脏病并发急性肾损伤的预警价值	朱清, 高勇(281)
脓毒症患者血 lncRNA PVT1、lncRNA TUG1、HMGB1 的表达及临床意义	胡韶山, 于启霞, 李潘孝(285)
不同 C 肽水平 T2DM 老年患者 CSII 强化治疗的基础-餐前剂量特点分析	董银樵, 顾秀云, 曹顺民(288)
RDW、PDW 与 su-PAR 对重度创伤性颅脑损伤患者预后的评估价值	杨思伟, 袁圆, 宋训君(292)

· 文献综述 ·

miRNA 对妊娠疾病胎盘滋养层细胞功能调控的研究进展	梁伶俐, 杨春芬, 罗桂芳, 何璐, 王佐(295)
G-CIMP 表达在胶质瘤中的研究进展	齐泽迪, 陈胜利, 屈一晨, 张明达, 胡昌晨(299)
NLRP3 炎症小体与肺炎支原体的关系及中药治疗的研究进展	甘甜, 陈丽, 苏晓玲, 何军(302)
Th17 细胞分化调控及其治疗自身免疫性疾病的研究进展	李程悦, 苏泽红, 肖李, 龚慧芳, 李富裕, 练高建(305)
HIF-1α 在新生儿缺血缺氧性脑病中的研究进展	李蓓, 王路瑶, 唐轶珣, 孔高茵(309)

· 公益广告 · 封二, 封三

期刊基本参数 CN43 - 1509/R * 1973 * b * A₄ * 156 * zh * P * ¥10 * 1000 * 39 * 2023-03

本期责任编辑 朱雯霞 蒋湘莲 李小玲 英文编辑 崔俊成 责任校对 丁炳丽 电脑排版 李佩佩

Medical Science Journal of Central South China

Bimonthly, Established in 1973

Volume 51, Number 2

March, 2023

Responsible Institution

Department of Education of
Hunan Province

Sponsoring Institution

University of South China

Academic Support Unit

Central Hospital of Hengyang

Editor and Publisher

Editorial Department of Medical
Science Journal of Central
South China

University of South China,
Hengyang, Hunan 421001, China
Tel: 0734-8160781
E-mail: znyxkxzz@vip.163.com
http://nhqks.cnjournals.com/yx/

Editor-in-chief

WEN Gebo

Associate Editor-in-chief

WU Yimou JIANG Zhisheng
LEI Xiaoyong RONG Yikang

Managing Director

LI Xiaoling

Printing

Changsha Heyi Printing Equipment
Co., Ltd.

Overseas Distributor

China International Book
Trading Cooperation
P. O. box 399, Beijing, China
Code No. Q4353

Domestic Subscription

Post Office, China
Code No. 42-396

Mail-Order

Editorial Staff of Medical
Science Journal of Central
South China

CSSN

ISSN 2095-1116
CN 43-1509/R

Price

¥ 10.00

This issue was edited by
ZHU Wenxia

CONTENTS

• BONE AND JOINT COLUMN •

- Osteoarthritis: an ongoing challenge WEI Fu, CHEN Zhiwei(157)
Knocking down RIPK1 delays the pathological progression of OA by inhibiting chondrocyte aging level LIANG Shuang, LU Rui, HE Zhiyi, HE Yanze, YANG Qin(161)
Bioinformatics analysis of key genes of OA in the knee joint and immunocyte infiltration in cartilage tissue ZHAI Ganggang, LIANG Xiaming, YUE Songkai, JIANG Chenyang, DONG Yonghui, ZHENG Jia(166)
Application of different soft tissue balancing techniques in total knee arthroplasty TAN Qingshan, CHEN Zhiwei, CHEN Wei, JIN Fengtian, ZHANG Runmin, LI Huiyun, RAN Xun(170)
Research progress of osteoarthritis after knee trauma caused by anterior cruciate ligament injury LI Yangtao, CUI Juncheng, LI Jinxin, WU Jingcheng, TANG Lingyun(174)

• BASIC MEDICINE •

- Chronic intermittent hypoxia combined with obesity leads to mice renal damage through endoplasmic reticulum stress LIU Chengyu, WANG Yicheng, HE Yanjie, HE Meijuan, HUANG Hanpeng(178)
Designing a multi-epitope vaccine candidate against Chlamydia trachomatis and evaluating its protective effect LIU Huiping, LI Shuyi, CHEN Heyi, CHEN Chaoqun(183)
Silencing circROBO1 inhibits the invasion and pulmonary metastasis of nasopharyngeal carcinoma CNE2 cells by down-regulating KRAS WEN Lingbo, SUN Piyun, LUO Qin, XIAO Juan(188)
Effects of fructus broussonetiae on the proliferation, apoptosis and TLR4/NF-κB/TNF-α signal pathway of hepatic stellate cells YANG Wenxiu, CHEN Xiangsui, GONG Fengying, LIN Jie(193)
Impacts of circ_0000069 on the proliferation, migration and invasion of non-small cell lung cancer A549 cells by targeting miR-338-3p ZHANG Wei, LIU Qingchun, ZHANG Wei, RAO Shan, WANG Hui, CHEN Yige, MI Weiguo(197)
Effect of miR-33a on Th17/Treg cell balance in juvenile asthma mice based on Notch signal pathway CHENG Jing, NIAN Rui, LI Wanjun(202)

• CLINICAL MEDICINE •

- Analysis of the epidemic characteristics of AHC in Hunan from 2007 to 2021 JIANG Zexin, CHANG Xueqing, ZHU Wenxuan, ZHU Qiong, XIE Yinghao, WU Chengqiu, LIU Fuqiang(206)
Preventive effect of butorphanol nasal administration on sufentanil induced cough response during induction of general anesthesia YANG Hao, KONG Gaoyin, YANG Ying, WANG Yilun, LING Yingzi, PAN Bingbing(210)
The expression and clinical significance of lncRNA NKILA and miR-124 in the serum of children with refractory epilepsy ZHENG Yuxia, LI Yaling, SHEN Jing, ZHOU Ling, DUAN Lifen(214)

Association of MTHFR C677T gene polymorphism with CISS classification and cerebral collateral circulation in cerebral infarction	XUAN Lihui, CHEN Yingzhu, YAN Lili, WANG Qian, LI Xuemei, FENG Yujing, MENG Yanhong, YANG Na(218)
Effect of sacubitril-valsartan on ventricular remodeling and cardiac function in patients with dilated cardiomyopathy heart failure	LIU Fei, YANG Wencan(222)
Changes and clinical significance of serum MLR, PLR and CA125 in patients with ovarian endometriotic cysts	LI Tingna, WEI Qiuyuan, WANG Xiaonuan, HAN Yixu(226)
Effect of PGE1 combined with PHC on inflammatory factors during perioperative period of CPB in children with congenital heart disease	WEI Xiaolin, YOU Zhijian(229)
The value of Smo, Gli2 and FoxM1 in the diagnosis and prognosis of glioma	XIAO Shihe, LI Gang, ZHOU Fen, LIU Zhen, LIU Zhonghai(234)
The value of serum miR-222, miR-874-3p and miR-27a in the diagnosis of polycystic ovary syndrome	WANG Jingna, JIAO Baoquan(238)
Relationship between postoperative insulin resistance and inflammatory factor levels and visual quality in patients with cataract and glaucoma	CAI Yehai, LIU Weixian, ZHUO Yehui, HUANG Lizhen(242)
Effect of cognitive correction combined with conventional drugs on patients with bipolar disorder and its effect on TBIL, UA and BDNF	ZHANG Zhenxue, WANG Jiahui(246)
Effect of cervical dilatation balloon and oxytocin on cervical maturation and delivery outcome in term pregnancy	CHEN Yufeng, YANG Xiaolei, LI Bei(250)
Analysis of influencing factors of the ovarian endometrioid cyst and its influence on ovarian function and pregnancy outcome	LI Juan, GU Xiaomei, ZHAO Jinheng(254)
Application of linaclotide combined with PEG in bowel preparation of patients with chronic constipation	ZHENG Yuying, LYU Zhiwu(257)
Therapeutic effect of Yingxinning capsule combined with simvastatin on ASCVD in elderly men and its effect on TGF- β 1-Smad2/3 pathway	LIAO Yanlin, ZHU Hao, ZHU Genyuan, CHEN Huimin, LIU Peng, MING Guan(261)
Prognostic value of serum cholinesterase level combined with lactate clearance rate in patients with septic shock	CAO Lei, LI Xiaoqian(265)
Effects of liraglutide and exenatide on blood glucose and gastrointestinal reaction in patients with type 2 diabetes	JIN Chen, LIU Huihui, SUN Ying, SHEN Caixia(269)
The guiding value of Th17/Treg balance for antiviral therapy in patients with chronic hepatitis C virus infection	KONG Dena, SONG Le, SHEN Guiyue(273)
The expression level of RIG-I and USP5 in epithelial ovarian cancer and its clinical prognostic significance	QI Man, LU Qiutong, LIU Shaoqing, ZHANG Juan, CUI Yanping, LIU Yongmei(277)
Early warning value of combined detection of RBP and β 2M in peripheral blood for stage 2-4 chronic kidney disease complicated with acute kidney injury	ZHU Qing, GAO Yong(281)
Expression and clinical significance of peripheral blood lncRNA PVT1, lncRNA TUG1 and HMGB1 in patients with sepsis	HU Shaoshan, YU Qixia, LI Panxiao(285)
Analysis of basal-preprandial dose characteristics of CSII intensive treatment in elderly T2DM patients with different C-P levels	DONG Yingqiao, GU Xiuyun, CAO Shunmin(288)
Prognostic value of RDW, PDW and su-PAR in the assessment of patients with severe traumatic brain injury	YANG Siwei, YUAN Yuan, SONG Xunjun(292)

• LITERATURE REVIEW •

Research progress in miRNA regulation of placental trophoblast cell function in pregnancy diseases	LIANG Lingli, YANG Chunfen, LUO Guifang, HE Lu, WANG Zuo(295)
Research progress of G-CIMP expression in glioma	QI Zedi, CHEN Shengli, QU Yichen, ZHANG Mingda, HU Changchen(299)
Research progress of relationship between NLRP3 inflammatory corpuscles and mycoplasma pneumoniae and treatment with traditional Chinese medicine	GAN Tian, CHEN Li, SU Xiaoling, HE Jun(302)
Modulation of Th17 cell differentiation and its research progress in the treatment of autoimmune diseases	LI Chengyue, SU Zehong, XIAO Li, GONG Huifang, LI Fuyu, LIAN Gaojian(305)
Research progress on hypoxia-inducible factor-1 α in the neonatal hypoxic-ischemic encephalopathy	LI Bei, WANG Luyao, TANG Yixun, KONG Gaoyin(309)

• PUBLIC SERVICE ANNOUNCEMENT • Cover 2, Cover 3