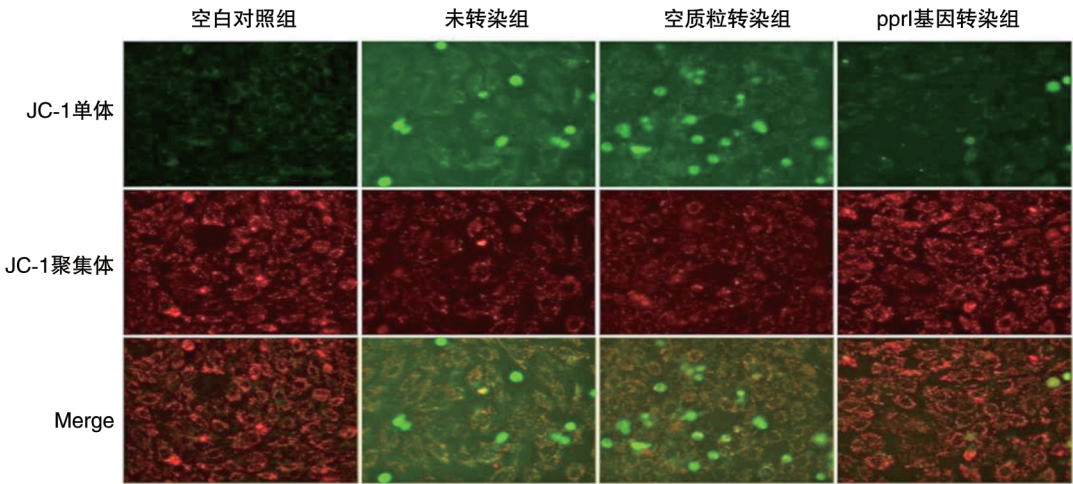


Medical Science Journal of
Central South China

中南医学科学杂志
Zhongnan Yixue Kexue Zazhi

耐辐射奇球菌pprI基因对MMC诱导H9C2心肌细胞损伤的保护作用

何淑雅，胡英香，刘波，王五洲，肖方竹，马云，袁汪琪，漆辉洲
南华大学衡阳医学院公共卫生学院，湖南衡阳 421001



中南医学科学杂志

ZHONGNAN YIXUE KEXUE ZAZHI

双月刊

1973 年创刊

第 51 卷第 1 期

2023 年 1 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: znyxkzz@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

· 特约约稿 ·

耐辐射奇球菌 pprI 基因对 MMC 诱导 H9C2 心肌细胞损伤的保护作用

…………… 何淑雅, 胡英香, 刘波, 王五洲, 肖方竹, 马云, 袁汪琪, 漆辉洲(1)

· 基础医学 ·

lncRNA SNHG30 基因敲除通过抑制 PHF5A 表达影响胶质瘤 U251

细胞增殖 …………… 徐文琴, 叶静静, 陈天兵(6)

多肽 ZLW 调控日本血吸虫感染小鼠巨噬细胞极化改善肝纤维化

…………… 李小鸽, 陈聪, 陈思睿, 肖建华, 梁柯嘉, 刘彦(11)

基于生物信息学分析库欣综合征核心基因与互作 miRNA

…………… 党春晓, 刘鹏飞, 王鼎, 郝迎新, 刘金星, 于潇(15)

CRC 候选关键基因及潜在疗效中药生物信息学分析

…………… 曾庆昇, 孙轶, 杨红杰, 李鹏, 江佩师, 张锡朋(19)

二氢杨梅素对高脂饮食诱导的肥胖小鼠肝脏氧化应激和炎症因子

的影响 …………… 田英入, 颜欣, 王紫涵, 罗金定, 何剑琴, 奉水东, 凌宏艳(24)

circCDYL 靶向 miR-552-5p 抑制胃癌 AGS 细胞的增殖和转移

…………… 刘海朋, 秦国庆, 史立彬, 刘静华(28)

二甲双胍通过调节 AMPK/ERK 通路改善动脉粥样硬化小鼠血管

平滑肌细胞异常增殖和动脉粥样硬化 …………… 李祎楠, 刘欣艳(32)

丹参酮 II A 抑制糖尿病动脉粥样硬化大鼠动脉平滑肌细胞凋亡及机制

…………… 符杰, 邓红艳, 李玉凯, 胡莹洁, 胡嫚丽(37)

lncRNA MEG3 经 miR-421 调节 E-cadherin 抑制乳腺癌细胞 EMT

…………… 王清云, 王秀艳, 尹婷婷, 胡爽(41)

基于网络药理学分析桂枝治疗类风湿关节炎的作用机制

…………… 陈雪猛, 王勇, 吴维(45)

· 临床医学 ·

2 型糖尿病肾病患者骨密度水平的影响因素分析

…………… 钟海清, 梁敏(49)

血糖波动与 2 型糖尿病亚临床周围神经病变的相关性

…………… 周晓, 毛晓明(53)

未足月胎膜早破合并宫内感染产妇胎盘 NLRP3、IL-1 β 、FasI 表达

及其临床意义 …………… 郑胜英, 赵志平, 李蓓(57)

复方甘草酸苷联合恩替卡韦治疗 HBV 相关 ACLF 疗效分析

…………… 陆剑萍, 覃家茂, 韦昭华(61)

酮咯酸氨丁三醇片仿制药与原研药的生物等效性评价

…………… 蔡颖, 黄红谦, 韦传姑(65)

肘管扩大成形术联合黄芪桂枝五物汤对中重度 CTS 尺神经功能恢复的影响	余航, 代丽, 冯娜娜, 宿晓雷(69)
枸橼酸氯米芬胶囊联合 HCG 对 PCOS 疗效和性激素水平的影响	熊丽, 邹洁宁, 陈丹丹, 李群英, 肖进蕾, 张慧(73)
胃 ESD 术中出血的危险因素分析及 Logistic 回归模型建立	张炜(77)
结肠癌组织 LTBP2、ACTL8 表达与病理参数及预后的关系	商庆花, 李景光, 姜晓倩, 吴春平, 刘艳彩, 赵岭岭(80)
小动脉硬化脑血管病危险因素分析及 sTM、CD62P、VE-cadherin 对其预后的预测	李剑侠, 林小祥, 余勇波, 黄先锋(83)
程序化间歇硬膜外麻醉对 HDP 剖宫产麻醉效果和血流动力学的影响	孙宝侠, 冯海霞, 何玲, 卢琴, 黄雪梅, 杜娟, 杨婕(87)
亚临床甲状腺功能减退症患者 TSH 与肾上腺皮质功能的关系	江帆, 刘宁, 翟鑫, 管频, 冯光球, 陈娟, 曾敏(90)
IFN- γ 、TLR4、TGF- β 1 对 RSV 感染毛细支气管炎患儿病情严重程度的预测价值	张建春, 卞秀菊(93)
MRI 导向立体定向手术对脑胶质瘤疗效和神经肽、免疫细胞因子的影响	成军群, 李黄煜, 王瑞馨, 孙士朋, 耿飞(97)
脐动脉血流动力学和血乳酸与宫内窘迫胎儿缺氧程度、氧化应激程度的关系	林丽萍, 张美龄, 王慧静(100)
肺动脉高压合并心律失常的风险列线图预警模型的构建	李妍琳, 孙小康, 文智, 阳君蓉, 刘颖(103)
微型种植体支抗对错颌畸形患者的临床疗效	杨珍, 肖亦芳, 廖健强(107)
老年慢性心力衰竭患者肺部感染的危险因素及其对 PCT、NT-proBNP 及氧化应激指标的影响	王国玉, 巴春贺, 李彤, 王浩宇, 徐志超, 曹俊杰(110)
特瑞普利单抗联合同步放化疗治疗中晚期鼻咽癌的疗效观察	王翠英, 陈琰, 覃世运(114)
抑郁障碍患者外周血 T 淋巴细胞及其亚群线粒体损伤的临床意义	曹昌德, 余万庆, 童庆好, 姚伟, 陈亚婷(117)
OSAHS 患者黄斑色素光密度与血清叶黄素水平的相关性	张静, 唐姝, 徐颖, 杨家芳, 周婷(120)
早期胃肠外补充谷氨酰胺对脓毒症患者低蛋白血症的影响	张红艳, 杨茜, 赖源(123)
小剂量奥氮平联合多奈哌齐对老年性痴呆精神行为症状及免疫、认知功能的影响	张艳艳, 李凯, 蒋光明(126)
细菌性肺炎患儿肠道微生态及其与血 FOXP3、G-CSF 水平的关系	党赫铭, 高萃, 冯孝强, 姜华(130)
卡格列净联合胰岛素强化治疗 T2DM 患者胰岛素抵抗的变化	董丽红, 白鹤, 马艳荣(133)
轻型缺血性脑卒中后认知障碍及其危险因素分析	陈明濠, 谢伟坚, 梅麒, 张业昆, 黄炬辉(136)
双歧杆菌三联活菌肠溶胶囊联合阿奇霉素序贯疗法治疗对肺炎支原体肺炎腹泻患儿胃肠炎症的调节作用	罗洪霞, 李波, 李洪刚, 冯国隽(139)
• 文献综述 •	
纳米颗粒影响心血管健康的分子机制研究进展	陈舒婷, 黄方方, 冯雅诗, 张钰棋, 王五香, 封少龙(142)
BET 蛋白与脑认知功能关系的研究进展	孟辉, 邹广菁, 黄伏连(146)
酰胺单核苷酸在多囊卵巢综合征中的作用研究进展	汤瑾如, 伍枫, 刘慧晴, 易康, 王彩霞, 彭翠英, 李素云(150)
SGLT-2 抑制剂改善 2 型糖尿病脂代谢的研究进展	周维晶, 王建平(154)

Medical Science Journal of Central South China

Bimonthly, Established in 1973

Volume 51, Number 1

January, 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 Staff of Medical
Science Journal of Central
South China
University of South China,
Hengyang, Hunan 421001, China
Tel: 0734-8160781
E-mail: znyxkzz@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 Corporation
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
JIANG Xianglian

CONTENTS

· SPECIAL CONTRIBUTION ·

Protective effect of ppri gene of deinococcus radiodurans on injury of H9C2 cardiomyocytes
induced by MMC HE Shuya, HU Yingxiang, LIU Bo,
WANG Wuzhou, XIAO Fangzhu, MA Yun, YUAN Wangqi, QI Huizhou(1)

· BASIC MEDICINE ·

Effect of lncRNA SNHG30 knockout on proliferation of glioma U251 cells through inhibits PHF5A
expression XU Wenqin, YE Jingjing, CHEN Tianbing(6)
The polypeptide ZLW regulates host macrophage polarization to improve liver fibrosis in schistosomiasis
..... LI Xiaoge, CHEN Cong, CHEN Sirui, XIAO Jianhua, LIANG Kejia, LIU Yan(11)
Identification of core genes and interacting miRNA of Cushing's syndrome based on bioinformatics
..... DANG Chunxiao, LIU Pengfei, WANG Ding, HAO Yingxin, LIU Jinxing, YU Xiao(15)
Bioinformatics analysis of CRC candidate key genes and traditional Chinese medicine with potential
therapeutic effects ZENG Qingsheng, SUN Yi,
YANG Hongjie, LI Peng, JIANG Peishi, ZHANG Xipeng (19)
Effect of dihydromyricin on oxidative stress and the expression of inflammatory factors in the liver of
obese mice induced by high-fat diet TIAN Yingru, YAN Xin,
WANG Zihan, LUO Jinding, HE Jianqin, FENG Shuidong, LING Hongyan(24)
circCDYL inhibits the proliferation and metastasis of AGS cells in gastric cancer by targeting
miR-552-5p LIU Haipeng, QIN Guoqing, SHI Libin, LIU Jinghua(28)
Metformin improves the abnormal proliferation of vascular smooth muscle cells and atherosclerosis in
atherosclerotic mice by regulating AMPK/ERK pathway LI Yanan, LIU Xinyan(32)
Tanshinone II A inhibits the apoptosis of arterial smooth muscle cells in diabetic atherosclerotic rats
and its mechanism FU Jie, DENG Hongyan, LI Yukai, HU Yingjie, HU Manli(37)
lncRNA MEG3 regulates E-cadherin by miR-421 to inhibit EMT of breast cancer cells
..... WANG Qingyun, WANG Xiuyan, YIN Tingting, HU Shuang(41)
Mechanism of cassia twig in treating rheumatoid arthritis based on network pharmacology
..... CHEN Xueming, WANG Yong, WU Wei(45)

· CLINICAL MEDICINE ·

Analysis of influencing factors of bone mineral density in type 2 diabetic nephropathy patients
..... ZHONG Haiqing, LIANG Min(49)
Correlation between glucose fluctuation and subclinical peripheral neuropathy in type 2 diabetes
..... ZHOU Xiao, MAO Xiaoming(53)
Expressions and clinical significance of NLRP3, IL-1 β and FasI in the placenta of puerperae with
preterm premature rupture of membranes complicated with intrauterine infection
..... ZHENG Shengying, ZHAO Zhiping, LI Bei(57)
Efficacy of compound glycyrrhizin combined with entecavir in the treatment of HBV related ACLF
..... LU Jianping, QIN Jiamao, WEI Zhaohua(61)
The bioequivalence between generic and original ketorolac tromethamine tablet
..... CAI Ying, HUANG Hongqian, WEI Chuangu(65)

Effect of enlarged cubital tunnel syndrome combined with Huangqi Guizhi Wuwu decoction on the recovery of ulnar nerve function with moderate to severe CTS	YU Hang, DAI Li, FENG Nana, SU Xiaolei(69)
Effect of clomiphene citrate capsules combined with HCG on the efficacy and sex hormone level of PCOS	XIONG Li, ZOU Jiening, CHEN Dandan, LI Qunying, XIAO Jinlei, ZHANG Hui(73)
Logistic regression Analysis of risk factor of bleeding during gastric ESD operation and establishment of Logistic regression model	ZHANG Wei(77)
The relationship between the expression of LTBP2 and ACTL8 and pathological parameters and prognosis in colon cancer	SHANG Qinghua, LI Jingguang, JIANG Xiaoqian, WU Chunping, LIU Yancai, ZHAO Lingling(80)
Analysis of risk factors of arteriosclerotic cerebrovascular disease and prediction of prognosis by STM, CD62P and VE-cadherin	LI Jianxia, LIN Xiaoxiang, YU Yongbo, HUANG Xianfeng(83)
Effect of procedural intermittent epidural anesthesia on the anesthesia effect and hemodynamics of cesarean section in HDP	SUN Baoxia, FENG Haixia, HE Ling, LU Qin, HUANG Xuemei, DU Juan, YANG Jie(87)
Correlation analysis between TSH and adrenal cortex function in subclinical hypothyroidism	JIANG Fan, LIU Ning, ZHAI Xin, GUAN Pin, FENG Guangqiu, CHEN Juan, ZENG Min(90)
Predictive value of IFN- γ , TLR4 and TGF- β 1 in children with RSV-infected bronchiolitis with different disease severity and risk factors for disease progression	ZHANG Jianchun, BIAN Xiuju(93)
Effect of MRI guided stereotactic surgery on the curative effect of glioma and the influence of neuropeptides and immune cytokines	CHENG Junqun, LI Guiyu, WANG Ruixin, SUN Shipeng, GENG Fei(97)
Relationship between umbilical artery hemodynamics and blood lactate with fetal hypoxia and oxidative stress in intrauterine distress	LIN Liping, ZHANG Meiling, WANG Huijing(100)
Construction of an early warning model of risk nomogram for pulmonary hypertension complicated with arrhythmia	LI Yanlin, SUN Xiaokang, WEN Zhi, YANG Junrong, LIU Ying(103)
Clinical effect of microimplant anchorage on patients with malocclusion	YANG Zhen, XIAO Yifang, LIAO Jianqiang(107)
Risk factors of pulmonary infection in elderly patients with chronic heart failure and their effects on PCT, NT-proBNP and oxidative stress indexes	WANG Guoyu, BA Chunhe, LI Tong, WANG Haoyu, XU Zhichao, CAO Junjie(110)
Clinical effect of toripalimab combined with concurrent chemoradiotherapy in the treatment of local advanced nasopharyngeal carcinoma	WANG Cuiying, CHEN Long, QIN Shiyun(114)
Clinical significance of peripheral blood T lymphocytes and mitochondrial damage of subsets in patients with depressive disorder	CAO Changde, YU Wanqing, TONG Qinghao, YAO Wei, CHEN Yating(117)
Correlation between MPOD and serum lutein level in OSAHS patients	ZHANG Jing, TANG Shu, XU Ying, YANG Jiafang, ZHOU Ting(120)
Effect of early parenteral glutamine supplementation on hypoalbuminemia in children with sepsis	ZHANG Hongyan, YANG Qian, LAI Yuan(123)
Effects of low-dose olanzapine combined with donepezil on psychobehavioral symptoms, immune and cognitive functions in patients with senile dementia	ZHANG Yanyan, LI Kai, JIANG Guangming(126)
Intestinal microecology and its relationship with serum FOXP3 and G-CSF levels in children with bacterial pneumonia	DANG Heming, GAO Cui, FENG Xiaoqiang, JIANG Hua(130)
Changes of insulin resistance in patients with T2DM after intensive treatment with kaglifloxacin combined with insulin	DONG Lihong, BAI He, MA Yanrong(133)
Analysis of cognitive impairment and its risk factors after minor ischemic stroke	CHEN Minghao, XIE Weijian, MEI Qi, ZHANG Yekun, HUANG Juhui(136)
Effect of Bifidobacterium triple viable enteric coated capsule combined with Azithromycin Sequential Therapy on gastrointestinal inflammation in children with diarrhea Mycoplasma pneumoniae pneumonia	LUO Hongxia, LI Bo, LI Honggang, FENG Guojuan(139)

· LITERATURE REVIEW ·

Advances in the molecular mechanisms underlying the effects of nanoparticles on cardiovascular health	CHEN Shuting, HUANG Fangfang, FENG Yashi, ZHANG Yuqi, WANG Wuxiang, FENG Shaolong(142)
Research progress on the relationship between BET proteins and brain cognitive function	MENG Hui, ZOU Guangjing, HUANG Fulian(146)
Research progress of nicotinamide mononucleotide in polycystic ovary syndrome	TANG Jinru, WU Feng, LIU Huiqing, YI Kang, WANG Caixia, PENG Cuiying, LI Suyun(150)
Progress of SGLT-2 inhibitors in improving lipid metabolism in type 2 diabetes mellitus	ZHOU Weijing, WANG Jianping(154)