



第4期	ISSN 1673-6273
2023年 第23卷	CN 23-1544/R
	CODEN SXJTA8

PROGRESS IN MODERN
BIOMEDICINE

现代生物医学进展

XIAN DAI SHENG WU YI XUE JIN ZHAN

中国科技核心期刊

科技部中国科技论文统计源期刊

中国学术期刊网络出版总库 (CNKI) 收录期刊

俄罗斯文摘杂志(AJ)收录期刊

美国EBSCO数据库收录期刊

美国ProQuest数据库收录期刊

英国国际农业与生物科学研究中心(CABI)数据库收录期刊

美国化学文摘(CA) 检索期刊

美国剑桥文摘(CSA)收录期刊

Genamics Journal Seek收录期刊

英国Global Health数据库收录期刊

波兰哥白尼索引(IC)收录期刊

WHO西太区医学索引(WPRIM)收录期刊



ISSN 1673-6273

9 771673 627238 04>

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

半月刊 2001年4月创刊 第23卷 第4期 2023年2月28日出版 Progress in Modern Biomedicine

主 管:黑龙江省卫生健康委员会
主 办:黑龙江省森工总医院
哈尔滨医科大学附属第四医院
协 办:哈尔滨工业大学
上海交通大学附属第一人民医院
编 辑:现代生物医学进展编辑委员会
150040 哈尔滨市和兴路32号
电 话:0451-82583800
E-mail:biomed_54@126.com
E-mail:liudhui_21@126.com
E-mail:biomagnetism@163.com
http://biomed.cnjournals.com
http://www.shengwuyixue.com
http://swcx.periodicals.net.cn
学 术 顾 问: 杨宝峰 刘颂豪
阮长耿 曾溢滔 贺 林
张亭栋 王迺谦 刘玉清
郝希山 曾益新 张岂凡
执行主编: 吴文忠
主 编: 徐万海
副 主 编: 李 钰 张贵祥
黄文华 黄菊芳 刘 平
吕传柱 曾乐平 唐一源
曾凡一 刘 明 代文杰
张清媛
编辑部主任: 刘同奎
编辑部副主任:
刘子馨 谢建平 郑林丰
编辑部地址:150001,哈尔滨市54号信箱
(哈尔滨市花园街184号403)
电 话:0451-82583800 0451-53658268
传 真:0451-82583966
出 版:现代生物医学进展杂志社
印 刷:哈尔滨市工大节能印刷厂
发 行:国内:哈尔滨市报刊发行局
国 外:中国国际图书贸易总公司
(北京399信箱,100044)
国外发行代号:Q1728
订 购:全国各地邮局
邮发代号:14-12
邮 购:现代生物医学进展编辑部
(150001 哈尔滨市54号信箱)
定 价:30.00元/期,全年720.00元
中国标准刊号:ISSN 1673-6273
CN 23-1544/R
2023年版权归现代生物医学进展杂志社所有
本刊刊出的所有文章不代表编委会的观点,
除非特别声明 本刊如有印刷质量问题,请向
现代生物医学进展杂志编辑部调换

目 次

·论 著·	
·基础研究·	
梓醇对 Aβ 损伤 SH-SY5Y 细胞 BDNF 表达的影响及机制研究	黄婉莹 张永芳 王 昊等 (601)
四物汤在卵巢衰老大鼠骨骼肌中的雌激素样作用机制研究	杨佳迪 石丹宁 陈 瑶等 (607)
miR-126 调控脑缺血大鼠细胞凋亡机制的研究	李 巍 吕 彦 张景华等 (613)
不同剂量紫草素对雌激素加孕激素负荷法建立的子宫肌瘤大鼠的 子宫组织 ER, PR 和 p-ERK 的蛋白表达影响	王 丽 张梦婷 陈 阳等 (619)
槲皮素调节 AMPK/SIRT1/NF-κB 通路对乙型肝炎大鼠 肝组织损伤的影响	刘文晶 孙世杰 韩 冰等 (624)
Gdf15 对酒精性脂肪肝代谢异常的影响	路玉洁 邹湘君 武彦芳等 (630)
对比增强高分辨率 MRI 评价大脑中动脉斑块的时程变化 与脑脊液炎症因子水平的相关性	胡宇恒 赵文超 童 俊等 (636)
TLR4、TRAF6、IL-6 和 IL-1β 在深静脉血栓大鼠模型中的表达和意义	王喜尧 王育文 齐桂云等 (641)
七氟醚通过影响外周血 miR-340 水平逆转脓毒症大鼠巨噬细胞吞噬 功能抑制状态的机制	高 赛 贾洪峰 张 振等 (646)
·临床研究·	
肾小球肾炎血清 BUN、RBP 的诊断价值分析	贾 勤 王 慧 羽晓瑜等 (651)
慢性鼻窦炎患者嗅觉障碍的危险因素探讨及其对患者心理健康 和生存质量的影响	马新宇 商 森 王 雨等 (655)

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

半月刊 2001 年 4 月创刊 第 23 卷 第 4 期 2023 年 2 月 28 日出版 Progress in Modern Biomedicine

血清 sTM、PCT、CRP/PAB 比值与脓毒症患者 APACHE II 评分、SOFA 评分的相关性
及其联合检测对预后的预测价值 范孟静 段美丽 林 瑾等 (660)

加味八珍汤联合 mFOLFOX6 方案对晚期结直肠癌患者肿瘤标志物、免疫功能
和外周血 PI3K-Akt 信号通路的影响 王登灿 陈焰烽 郑 炜等 (666)

呼吸机相关性肺炎患者血清 NAMPT、YKL-40、sTREM-1 水平与病情程度及预后的关系研究
..... 庄新梅 张 霞 黄 颖等 (671)

沙参麦冬汤联合硫酸羟氯喹治疗气阴两虚型原发性干燥综合征的疗效及对 Th17/Treg 免疫失衡的影响
..... 史潇璐 袁晓玲 高乃心等 (676)

宫腔镜切除术联合 LNG-IUS 治疗子宫内膜息肉的临床作用研究 王 婧 王洪丽 陈美华等 (681)

肿块型乳腺癌的超声造影特征及定量参数与 sE-cad、sTNFR-P55 的相关性及其诊断价值分析
..... 张迎春 肖秋金 谢雅娜等 (686)

血清 BNP、Gal-3 联合左房容积指数对非体外循环冠状动脉搭桥术患者术后新发房颤的预测效能分析
..... 杨 阳 王 雪 李晨陆等 (692)

PKP 术中不同骨水泥填充剂量治疗骨质疏松性椎体压缩性骨折的疗效对比
及术后骨水泥渗漏的影响因素探讨 贾小宝 吴 宇 冷楠楠等 (698)

鼻咽癌组织 CTHRC1 mRNA、c-IAP2 mRNA 表达水平与临床病理特征和预后的关系分析
..... 喻 超 祝 康 王波涛等 (704)

血必净注射液对重症急性胰腺炎患者肾功能、炎性因子和外周血单核细胞 TLR4/NF-κB 信号通路的影响
..... 王 艳 王利利 刘 伟等 (709)

改良拔河针法对膝关节骨性关节炎患者远期关节功能和生活质量的影响
..... 燕 军 蒋素英 蔡 凌等 (714)

不同剂量羟考酮复合右美托咪定麻醉对肺癌根治术患者自控静脉镇痛效应及免疫应答的影响
..... 柴 青 周海娇 王朝集等 (719)

血清 OC、TSP-1、ANGPTL2 与多囊卵巢综合征患者胰岛素抵抗、性激素和卵巢间质血流的关系研究
..... 王宇娟 杨文静 王静冉等 (724)

全膝关节置换术中不同止血带使用方法的疗效比较及对患者凝血功能、炎症反应和生活质量的影响
..... 朱慧新 戴丽群 黄秀芬等 (729)

肝细胞肝癌组织 GPSM2、GFPT2、SNORA51 mRNA 表达与临床病理特征的关系及对预后的影响研究
..... 易 华 袁宏伟 孙勤暖等 (733)

针刺运动疗法联合早期康复训练对急性踝关节扭伤患者踝关节功能、
血清炎症因子和致痛物质水平的影响 袁家秀 欧阳梦婷 罗颖慧等 (739)

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

半月刊 2001年4月创刊 第23卷 第4期 2023年2月28日出版 Progress in Modern Biomedicine

老年营养风险指数联合血清铁蛋白水平对维持性血液透析患者腹主动脉钙化风险的预测价值
..... 汪春芳 林 丽 张丽娟等 (744)

脓毒症相关急性呼吸窘迫综合征患者血清 Lac、D-D、sTM、ESM-1 的表达及其临床意义
..... 范 昊 邵 韩 徐 猛等 (749)

血清睾酮联合红细胞分布宽度、白蛋白碱性磷酸酶比值对腹腔镜前列腺癌根治术后
生化复发的预测价值 魏 英 蔡维敏 王 飞等 (755)

低频脉冲刺激穴位疗法联合规律有氧运动对 2 型糖尿病周围神经病变患者感觉阈值、
神经传导速度和血液流变学的影响 闫文雪 任 玲 方娅霞等 (761)

直接前方入路与后外侧入路全髋关节置换治疗股骨颈骨折的疗效比较及术后髋关节功能的影响因素分析
..... 章其祥 陈向阳 吴继彬等 (766)

体外受精 - 胚胎移植女性患者焦虑状况的影响因素分析及对妊娠结局的影响
..... 周婷婷 武 颖 任军丽等 (772)

不同焦虑程度青少年首发广泛性焦虑障碍患者血清 NPY、5-HT、BDNF 的变化
及其与生活应激、炎症因子和记忆功能的相关性分析 何旭斌 宦宗素 余芹瑶等 (777)

老年 2 型糖尿病患者人巨细胞病毒感染与脂糖代谢、胰岛素抵抗及免疫失衡的关系研究
..... 李 纯 熊 静 廖 娟等 (782)

宫颈癌患者高危型人乳头瘤病毒感染状况及其与阴道微环境、氧化应激水平及 Th1/Th2 细胞因子的关系研究
..... 秦丽欣 李 枫 白娅琴等 (787)

儿童先天性白内障发病的影响因素分析及人工晶状体植入术后屈光状态的变化研究
..... 梁金才 李秉倩 朱健华等 (792)

肺力咳合剂辅助布地奈德和复方异丙托溴铵对支气管哮喘患儿肺功能、炎症介质和免疫功能的影响
..... 张米桥 姚 娟 李继红等 (796)

·重要信息·

《现代生物医学进展》杂志简介及投稿指南 (I ~IV)

责任编辑:王念、武海艳、郭晓东、李寿朋、王国华、陈文、田向荣、曾垂凯、陶维东、王沛坚、崔玉宝
英文编辑:田林杰、王娟、杨尚琴、李媛媛、吕志刚、马军、符波、朱杰、许愿忠、靳大川、岳颖、陈芸芸
执行编辑:谢建平、曾乐平、刘子馨、郑林丰、韩康、周利红、周颖、张玉环、董佩锋、朱英杰、万民熙
封面设计:曾乐平、彭安安

Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 4

February 28 2023

Responsible: Health Commission of Heilongjiang province
Sponsor: Heilongjiang Province Forestry General Hospital
The Fourth Hospital of Harbin Medical University
Cosponsor: Harbin Institute of Technology
Shanghai Jiao Tong University
Affiliated First People's Hospital
Editing: Editorial Board of Progress in Modern Biomedicine
No.32, Hexing Road, Harbin 150040
Tel:(0451) 82583800
<http://biomed.cnjournals.com>
<http://www.shengwuyixue.com>
<http://swcx.periodicals.net.cn>
E-mail: biomed_54@126.com
E-mail: liudhui_21@126.com
E-mail: biomagnetism@163.com
Academic Adviser: YANG Bao-feng
LIU Song-hao RUAN Chang-geng
ZENG Yi-tao HE Lin
ZHANG Ting-dong WANG Nai-qian
LIU Yu-qing HAO Xi-shan
ZENG Yi-xin ZHANG Qi-fan
Executive-Editor-in-chief:
WU Wen-zhong
Editor-in-chief:
XU Wan-hai
Associate Editor-in-chief: LI Yu
ZHANG Gui-xiang HUANG Wen-hua
HUANG Ju-fang LIU Ping
LV huan-zhu ZENG Le-ping
TANG Yi-yuan ZENG Fan-yi
LIU Ming DAI Wen-jie
ZHANG Qing-yuan
Managing Director:
LIU Tong-kui
Managing Associate Director:
LIU Zi-xin XIE Jian-ping
ZHENG Lin-feng
Address of Editorial Department:
150001, Harbin No.54 Post-office box
(Room 403, No.184 at Huayuan Street, Harbin)
Tel: 0451-82583800 0451-53658268
Publishing: House, Journal of Progress in Modern Biomedicine
Printing: Harbin city Gongda save energy printing House
Overseas Distributor: China International Book Trading corporation.
P.O Box 399, Beijing, code No.Q1728
Mail-Order: Editorial Department of publishing House, Progress in Modern Biomedicine
Harbin 54 Post-office box, Harbin 150001
Tel: 0451-53658268 0451-82583800
CSSN: ISSN 1673-6273
CN 23-1544/R
Copyright 2023 by the publishing House of Progress in Modern Biomedicine
All articles published represent the opinions of the authors, do not reflect the official policy of the Editorial Board of Progress in Modern Biomedicine unless this is clearly specified.

Contents in Brief

ORIGINAL ARTICLES

·BASIC RESEARCH·

The Effect of Catalpol on BDNF Expression in Aβ Intoxicated SH-SY5Y Cells and Mechanism Research	HUANG Wan-ying, ZHANG Yong-fang, WANG Hao, et al	(601)
Study on the Estrogen-like Action Mechanism of Siwu Decoction in Skeletal Muscle of Ovarian Aging Rats	YANG Jia-di, SHI Dan-ning, CHEN Yao, et al	(607)
Expression Changes of microRNA-126 in Brain Tissues and Plasma in Rats with Cerebral Ischemia	LI Wei, LÜ Yan, ZHANG Jing-hua, et al	(613)
Effects of Different Doses of Shikonin on the Protein Expression of ER, PR and P-ERK in Uterine Tissue of Rats with Uterine Fibroids Established by Estrogen Plus Progesterone Loading Method	WANG Li, ZHANG Meng-ting, CHEN Yang, et al	(619)
Impact of Quercetin on Liver Tissue Damage in Hepatitis B Rats by Regulating AMPK/SIRT1/NF-κB Pathway	LIU Wen-jing, SUN Shi-jie, HAN Bing, et al	(624)
Effect of GDF15 on Metabolic Abnormalities of Alcoholic Fatty Liver	LU Yu-jie, ZOU Xiang-jun, WU Yan-fang, et al	(630)

Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 4

February 28 2023

Correlation between Time-course Changes of Middle Cerebral Artery Plaques and the Levels of Inflammatory Factors in Cerebrospinal Fluid Assessed by Contrast-enhanced High-resolution MRI	
HU Yu-heng, ZHAO Wen-chao, TONG Jun, et al	(636)
Expression and Significance of TLR4, TRAF6, IL-6 and IL-1β in Rat Model of Deep Vein Thrombosis	
WANG Xi-yao, WANG Yu-wen, QI Gui-yun, et al	(641)
Mechanism of Sevoflurane Reversing the Inhibition of Macrophage Phagocytosis in Septic Rats by Influencing the Level of Peripheral Blood miR-340	
GAO Sai, JIA Hong-feng, ZHANG Zhen, et al	(646)
·CLINICAL RESEARCH·	
Analysis of the Expression and Significance of BUN and RBP in Serum of Children with Glomerulonephritis	
JIA Qin, WANG Hui, YU Xiao-yu, et al	(651)
Risk Factors of Olfactory Dysfunction in Patients with Chronic Sinusitis and its Influence on Mental Health and Quality of Life of Patients	
MA Xin-yu, SHANG Miao, WANG Yu, et al	(655)
Correlation of Serum sTM, PCT, CRP / PAB Ratio with APACHE II Score and SOFA Score in Patients with Sepsis and the Predictive Value of Combined Detection for Prognosis	
FAN Meng-jing, DUAN Mei-li, LIN Jin, et al	(660)
Effects of Jiawei Bazhen Decoction Combined with mFOLFOX6 Regimen on Tumor Markers, Immune Function and Peripheral Blood PI3K-Akt Signal Pathway in Patients with Advanced Colorectal Cancer	
WANG Deng-can, CHEN Yan-feng, ZHENG Wei, et al	(666)
Study on the Relationship between Serum NAMPT, YKL-40, sTREM-1 Levels and Disease Severity and Prognosis in Patients with Ventilator-Associated Pneumonia	
ZHUANG Xin-mei, ZHANG Xia, HUANG Ying, et al	(671)

Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 4

February 28 2023

Effect of Shashen Maidong Decoction Combined with Hydroxychloroquine Sulfate in the Treatment of Primary Sjogren’s Syndrome with Deficiency of Qi and Yin and its Effect on Th17/Treg Immune Imbalance	
SHI Xiao-lu, YUAN Xiao-ling, GAO Nai-xin, et al	(676)
Clinical Effect of Hysteroscopic Resection Combined with LNG-IUS in the Treatment of Endometrial Polyps	
WANG Jing, WANG Hong-li, CHEN Mei-hua, et al	(681)
Correlation between Contrast-Enhanced Ultrasound Characteristics and Quantitative Parameters of Massive Breast Cancer with sE-cad, sTNFR-P55 and its Diagnostic Value Analysis	
ZHANG Ying-chun, XIAO Qiu-jin, XIE Ya-na, et al	(686)
Predictive Efficacy of Serum BNP, Gal-3 Combined with Left Atrial Volume Index in Patients with Postoperative New-Onset Atrial Fibrillation after Off-Pump Coronary Artery Bypass Grafting	
YANG Yang, WANG Xue, LI Chen-lu, et al	(692)
Comparison of the Efficacy of Different Doses of Bone Cement in the Treatment of Osteoporotic Vertebral Compression Fractures during PKP Operation and Discussion of the Influencing Factors of Postoperative Bone Cement Leakage	
JIA Xiao-bao, WU Yu, LENG Nan-nan, et al	(698)
Relationship between CTHRC1 mRNA, c-IAP2 mRNA Expression and Clinicopathological Features and Prognosis in Nasopharyngeal Carcinoma	
YU Chao, ZHU Kang, WANG Bo-tao, et al	(704)
Effects of Xuebijing Injection on Renal Function, Inflammatory Factors and Peripheral Blood Mononuclear Cells TLR4/NF-κB Signaling Pathway in Patients with Severe Acute Pancreatitis	
WANG Yan, WANG Li-li, LIU Wei, et al	(709)
Effect of Modified Tug of War Acupuncture on Long-Term Joint Function and Quality of Life in Patients with Knee Osteoarthritis	
YAN Jun, JIANG Su-ying, CAI Ling, et al	(714)

Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 4

February 28 2023

Effects of Different Doses of Oxycodone Combined with Dexmedetomidine Anesthesia on Patient-Controlled Intravenous Analgesia and Immune Response in Patients Undergoing Radical Resection of Lung Cancer CHAI Qing, ZHOU Hai-jiao, WANG Chao-ji, et al	(719)
Relationship Study between Serum OC, TSP-1, ANGPTL2 and Insulin Resistance, Sex Hormone and Ovarian Interstitial Blood Flow in Patients With Polycystic Ovary Syndrome WANG Yu-juan, YANG Wen-jing, WANG Jing-ran, et al	(724)
Comparison of the Efficacy of Different Tourniquet Application Methods in Total Knee Arthroplasty and its Influence on Coagulation Function, Inflammatory Response and Quality of Life of Patients ZHU Hui-xin, DAI Li-qun, HUANG Xiu-fen, et al	(729)
Relationship between the Expression of GPSM2, GFPT2, SNORA51 mRNA and Clinicopathological Features in Hepatocellular Carcinoma Tissues and Their Impact Study on Prognosis YI Hua, YUAN Hong-wei, SUN Qin-nuan, et al	(733)
Effects of Acupuncture Exercise Therapy Combined with Early Rehabilitation Training on Ankle Function, Serum Inflammatory Factors and Pain Causing Substances in Patients with Acute Ankle Sprain YUAN Jia-xiu, OUYANG Meng-ting, LUO Ying-hui, et al	(739)
Predictive Value of Geriatric Nutritional Risk Index Combined with Serum Ferritin Level on the Risk of Abdominal Aortic Calcification in Maintenance Hemodialysis Patients WANG Chun-fang, LIN Li, ZHANG Li-juan, et al	(744)
Expression of Serum Lac, D-D, sTM, ESM-1 and Their Clinical Significance in Patients with Sepsis-Related Acute Respiratory Distress Syndrome FAN Hao, SHAO Han, XU Meng, et al	(749)
Predictive Value of Serum Testosterone Combined with Red Blood Cell Distribution Width and Albumin Alkaline Phosphatase Ratio for Biochemical Recurrence after Laparoscopic Radical Prostatectomy WEI Ying, CAI Wei-min, WANG Fei, et al	(755)

Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 4

February 28 2023

Effects of Low Frequency Pulse Stimulation Acupoint Therapy	
Combined with Regular Aerobic Exercise on Sensory Threshold, Nerve Conduction Velocity and Hemorheology in Patients with Type 2 Diabetes Peripheral Neuropathy	
YAN Wen-xue, REN Ling, FANG Ya-xia, et al	(761)
Comparison of Efficacy of Direct Anterior Approach and Posterolateral Approach Total Hip Arthroplasty in the Treatment of Femoral Neck Fracture and Analysis of the Influencing Factors of Postoperative Hip Function	
ZHANG Qi-xiang, CHEN Xiang-yang, WU Ji-bin, et al	(766)
Analysis of Influencing Factors of Anxiety State in Female Patients with in Vitro Fertilization-Embryo Transfer and its Impact on Pregnancy Outcome	
ZHOU Ting-ting, WU Ying, REN Jun-li, et al	(772)
Changes of Serum NPY, 5-HT, BDNF and Their Correlation Analysis with Life Stress, Inflammatory Factors and Memory Function in First-Episode Generalized Anxiety Disorder of Adolescents With Different Anxiety Levels	
HE Xu-bin, HUAN Zong-su, YU Qin-yao, et al	(777)
Study on the Relationship Between Human Cytomegalovirus Infection and Lipid and Glucose Metabolism, Insulin Resistance and Immune Imbalance in Elderly Patients with Type 2 Diabetes	
LI Chun, XIONG Jing, LIAO Juan, et al	(782)
Study on the Infection Status of High-Risk Human Papillomavirus and its Relationship With Vaginal Microenvironment, Oxidative Stress Level and Th1/Th2 Cytokines in Patients with Cervical Cancer	
QIN Li-xin, LI Feng, BAI Ya-qin, et al	(787)
Analysis of Influencing Factors of Congenital Cataract in Children and the Changes Study of Refractive State after Intraocular Lens Implantation	
LIANG Jin-cai, LI Bing-qian, ZHU Jian-hua, et al	(792)
Effects of Feilike Heji Combined with Budesonide and Compound Ipratropium Bromide on Lung Function, Inflammatory Mediators and Immune Function in Children with Bronchial Asthma	
ZHANG Mi-qiao, YAO Juan, LI Ji-hong, et al	(796)



中国科技核心期刊

(中国科技论文统计源期刊)

收录证书

CERTIFICATE OF SOURCE JOURNAL
FOR CHINESE SCIENTIFIC AND TECHNICAL PAPERS AND CITATIONS

现代生物医学进展

经过多项学术指标综合评定及同行专家
评议推荐，贵刊被收录为“中国科技核心期
刊”（中国科技论文统计源期刊）。

特颁发此证书。



中国科学技术信息研究所

Institute of Scientific and Technical Information of China

北京复兴路 15 号 100038

www.istic.ac.cn

2022年12月

证书编号：2021-F250-1694
有效期至：2023年12月

万方数据

