



QK2307851

第18期  
2023年 第23卷

ISSN 1673-6273  
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



# 现代生物医学进展

## XIANDAI SHENGWUYIXUE JINZHAN

半月刊 2001年4月创刊 第23卷 第18期 2023年9月30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  
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 张昌凡  
主 编: 吴文忠  
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  
社 长: 刘同奎  
编辑部主任: 刘子馨  
编辑部副主任:  
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社调换

## 目 次

### ·论 著·

### ·基础研究·

- 一种非酒精性脂肪性肝病的超声影像人工智能辅助诊断系统开发 ..... 宋镒凯 李时杰 梁月潇等 (3401)  
次氯酸与不饱和脂肪酸氧化机制和转化产物的理论研究 ..... 王露红 周莹莹 张福豪等 (3411)  
miR-20a 靶向 CCND1 作用 PI3K/AKT 信号通路  
抑制皮肤鳞状细胞癌的发展 ..... 胡新红 曹天宇 吕雅洁等 (3416)  
大鼠骨髓间充质干细胞的原代培养及鉴定 ..... 杨春丽 陆金芝 刘贝贝等 (3425)  
烟酰胺经调控 p38MAPK 信号通路对高血压脑出血大鼠的  
脑保护作用机制分析 ..... 董西朝 王林林 张 亮等 (3431)
- 临床研究·
- 腹式呼吸训练法对 COPD 伴 II 型呼吸衰竭患者肺通气状态、  
血气指标及运动耐力的影响 ..... 傅 婷 黄 洁 傅琴韵等 (3436)  
梅花针叩刺联合桃红四物汤加味治疗气滞血瘀型白癜风的临床疗效  
及对血清免疫球蛋白和自身抗体的影响 ..... 徐海蓉 华 华 杨丽坤等 (3440)  
肌内效贴联合经皮神经电刺激对脑卒中后偏瘫肩痛患者肩关节疼痛、  
肩关节功能和血液流变学的影响 ..... 秦 鲜 韦方宁 祝子惠等 (3445)  
视频脑电图联合 PEWS 评分、NSE、CD4<sup>+</sup>/CD8<sup>+</sup> 比值  
对病毒性脑炎患儿病情评估及预后预测的临床价值 ..... 沈淑媛 周进芳 秦运霞等 (3449)  
右美托咪定联合瑞芬太尼对老年内镜逆行胰胆管造影术患者  
血流动力学、应激反应和认知功能的影响 ..... 方 吉 吴海川 刘 帅等 (3455)

# 现代生物医学进展

## XIANDAI SHENGWUYIXUE JINZHAN

半月刊 2001年4月创刊 第23卷 第18期 2023年9月30日出版 Progress in Modern Biomedicine

- 改良 Masquelet 技术治疗胫骨感染性缺损的临床疗效分析 ..... 沙 浩 潘 健 芦 斌等 (3460)
- ICU 下呼吸道多重耐药菌医院感染的病原学临床特征及易感因素分析 ..... 田 梅 周 媛 周 敏等 (3465)
- 何氏生髓方联合聚乙二醇化重组人粒细胞集落刺激因子防治肺腺癌患者化疗后骨髓抑制的临床效果研究 ..... 薛登媛 冯久桓 袁嘉林等 (3470)
- 先天性心脏病患儿术前营养不良的危险因素分析及其对术后临床结局、免疫功能和生存质量的影响 ..... 庄 园 严丽洁 张 倩等 (3474)
- 超声心动图参数联合血清 NT-pro BNP、suPAR、PTX-3 预测慢性心力衰竭患者预后的临床研究 ..... 叶丽虹 余小君 吴 轲等 (3479)
- 输尿管单发结石患者体外冲击波碎石术的冲击波频率研究及碎石效果的影响因素探讨 ..... 郭崇波 李文华 樊 婕等 (3484)
- 胃癌组织长链非编码 RNA HIT000218960 的表达及其与患者临床病理特征及预后的关系研究 ..... 王慧慧 贾喜风 王琳琳等 (3489)
- 血清 CEA、G-17、MK、ProGRP 与胃癌根治术患者术后复发风险的关系研究 ..... 艾合散·卡马力 肖开提·阿不都哈德尔 杨 鹏等 (3494)
- 血清 OC、25(OH)D 及 PTH 水平与老年骨质疏松患者胸腰椎骨折的关系及其预测价值分析 ..... 张建华 但 刚 胡莉娜等 (3499)
- 重症急性胰腺炎合并腹腔感染患者病原菌分布、药物敏感性分析及其院内死亡的危险因素探讨 ..... 李玉蓉 邓 炜 王新刚等 (3504)
- 血清 cfDNA、VEGFA 与晚期胃癌患者化疗疗效和预后的关系研究 ..... 李 昊 王建忠 何春艳等 (3510)
- 2型糖尿病患者血清 Sestrin2 水平与心血管疾病的关系及其预测价值分析 ..... 焦 政 肖甜甜 殷晶晶等 (3514)
- 血清 APOC1、LDH 及炎性感染指标在难治性支原体肺炎患儿中的表达水平及其与肺通气功能、预后效果的相关性分析 ..... 陆明琰 刘晓风 张裕祥等 (3519)
- 公英益胃汤联合四联疗法对慢性胃炎的治疗效果及对幽门螺旋杆菌感染的影响 ..... 闵 彬 郭春霞 郭 莉等 (3524)
- 血清 5-HT、TNF- $\alpha$ 、补体 C1q 对重性抑郁障碍急性期患者抗抑郁疗效的影响 ..... 桑 璐 张 蓓 刘春燕等 (3528)
- 辅酶 Q10 联合替格瑞洛治疗冠心病不稳定型心绞痛疗效及对冠脉血流参数的影响 ..... 李 静 赵晓静 韦晓洁等 (3533)
- SII、COP-NLR 评分与局部晚期鼻咽癌患者临床病理特征和预后的关系研究 ..... 谢 宁 王 纶 刘淑君等 (3538)

# 现代生物医学进展

## XIANDAI SHENGWUYIXUE JINZHAN

半月刊 2001年4月创刊 第23卷 第18期 2023年9月30日出版 Progress in Modern Biomedicine

高血压前期患者颈动脉血管弹性超声参数与左室舒张功能的关系研究

..... 郑英娟 李朝喜 牛亚军等 (3543)

血脂、血小板参数、HOMA-IR 与阻塞性睡眠呼吸暂停低通气综合征

合并高血压患者 PSG 参数的相关性及其预测价值研究 ..... 王 胜 张文辉 卢立国等 (3548)

支气管哮喘患者血清 miR-29a-3p、miR-98-5p 表达水平与肺功能、气道炎症

和糖皮质激素治疗敏感性的关系研究 ..... 朱秀芝 王乐强 赵燕霞等 (3554)

苏州地区 0~14 岁儿童听力障碍流行病学调查及发病因素的 Logistic 回归分析

..... 马慧敏 赵 青 尹德佩等 (3559)

超声三维斑点技术联合 SYNTAX 评分对冠心病病情的判断价值分析

..... 丁冰倩 茅卫卫 陈 娟等 (3564)

肺力咳胶囊联合布地奈德福莫特罗粉吸入剂对慢性阻塞性肺疾病急性加重期患者血气分析指标

和 MMP-9/TIMP-1 失衡的影响 ..... 崔宏福 邬 春 王 谦等 (3568)

白内障患者术后感染性眼内炎的病原菌分布及 CD64 指数、血清 sTREM1、HMGB1 表达的临床意义

..... 张庆云 吕爱华 李 斌等 (3572)

普济痔疮联合化浊解毒方保留灌肠治疗肛窦炎的疗效及对疼痛介质、免疫功能和复发率的影响

..... 陈善虎 麻 倩 吴春晓等 (3577)

溶栓胶囊联合丁苯酞软胶囊对脑梗死恢复期患者血液流变学、脑血流动力学和神经因子的影响

..... 陈 锋 刘 红 程 坤等 (3582)

血浆 periostin 蛋白、cTnI 及 BNP 与扩张性心肌病患者室壁应力的相关性研究

..... 陈 程 于媛媛 罗先道等 (3586)

血清 AGR、CEA、CA199 及 MIC-1 表达在老年结直肠癌诊断及预后评估中的应用价值

..... 王 峰 李春梅 李南阳等 (3591)

DEB-TACE 联合卡瑞利珠单抗治疗中晚期肝癌的临床疗效及对肿瘤标志物和 T 淋巴细胞亚群的影响

..... 杨 晶 张庆桥 魏 宁等 (3596)

·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、董佩峰、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 18

September 30 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

**Editor-in-chief:**

WU Wen-zhong

**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

**President:**

LIU Tong-kui

**Editorial Director:**

LIU Zi-xin

**Deputy Editorial Director:**

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·

##### Ultrasonography-based Artificial Intelligence System

for the Classification and Quantification of

Human Liver Fat Content

SONG Yi-kai, LI Shi-jie, LIANG Yue-xiao, et al

..... (3401)

##### Theoretical Investigation of Oxidation Mechanisms

and Transformation Products of Hypochlorous Acid Reacting with Unsaturated Fatty Acids

WANG Lu-hong, ZHOU Ying-ying, ZHANG Fu-hao, et al

..... (3411)

##### miR-20a Inhibits the Development of Cutaneous Squamous Cell

Carcinoma through Targeted by CCND1

in the PI3K/AKT Signaling Pathway

HU Xin-hong, CAO Tian-yu, LÜ Ya-jie, et al

..... (3416)

##### Primary Culture and Identification of Bone Marrow Mesenchymal

Stem Cells from Rat

YANG Chun-li, LU Jin-zhi, LIU Bei-bei, et al

..... (3425)

##### Mechanism Analysis of the Protective Effect of Niacinamide

on Hypertensive cerebral Hemorrhage in Rats

by Regulating p38MAPK Signaling Pathway

DONG Xi-chao, WANG Lin-lin, ZHANG Liang, et al

..... (3431)

# Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 18

September 30 2023

## ·CLINICAL RESEARCH·

### Effect of Abdominal Breathing Training on Pulmonary Ventilation Status, Blood Gas Index

#### and Exercise Endurance of COPD Patients with Type II Respiratory Failure

FU Ting, HUANG Jie, FU Qin-yun, et al ..... (3436)

### Clinical Efficacy of Plum Blossom Needle Tapping Combined with Jiawei Taohong Siwu Decoction

#### in Treating Vitiligo of Qi Stagnation and Blood Stasis Type

#### and its Influence on Serum Immunoglobulin and Autoantibody

XU Hai-rong, HUA Hua, YANG Li-kun, et al ..... (3440)

### Effect of Intramuscular Plaster Combined with Transcutaneous Electrical Nerve Stimulation

#### on Shoulder Joint Pain, Shoulder Joint Function

#### and Hemorheology in Patients with Hemiplegic Shoulder Pain after Stroke

QIN Xian, WEI Fang-ning, ZHU Zi-hui, et al ..... (3445)

### Clinical Value of Video Electroencephalogram, Pediatric Early Warning Score, NSE

#### and CD4<sup>+</sup>/CD8<sup>+</sup> Ratio in Evaluating the Condition

#### and Predicting the Prognosis of Children with Viral Encephalitis

SHEN Shu-yuan, ZHOU Jin-fang, QIN Yun-xia, et al ..... (3449)

### Effects of Dexmedetomidine Combined with Remifentanil on Hemodynamics, Stress Response

#### and Cognitive Function in Elderly Patients with Endoscopic Retrograde Cholangiopancreatography

FANG Ji, WU Hai-chuan, LIU Shuai, et al ..... (3455)

### Clinical Analysis of Improved Masquelet Technique for the Treatment of Tibia Infectious Defect

SHA Hao, PAN Jian, LU Bin, et al ..... (3460)

### Pathogenic Clinical Characteristics and Susceptibility of Nosocomial Infection of

#### Multi-drug Resistant Bacteria in ICU Lower Respiratory Tract

TIAN Mei, ZHOU Yuan, ZHOU Min, et al ..... (3465)

### Clinical Effect of He's Shengsui Recipe Combine with Polyethylene Glycol Recombinant Human

#### Granulocyte Colony Stimulating Factor on Prevention and Treatment of

#### Bone Marrow Suppression of Patients with Lung Adenocarcinoma after Chemotherapy

XUE Deng-yuan, FENG Jiu-huan, YUAN Jia-lin, et al ..... (3470)

# Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 18

September 30 2023

## Analysis of Risk Factors of Preoperative Malnutrition in Children with Congenital Heart Disease

and Its Influence on Postoperative Clinical Outcome, Immune Function and Quality of Life

ZHUANG Yuan, YAN Li-jie, ZHANG Qian, et al ..... (3474)

## Clinical Study of Echocardiographic Parameters Combine with Serum NT-pro BNP,

suPAR, PTX-3 in Predicting the Prognosis of Patients with Chronic Heart Failure

YE Li-hong, YU Xiao-jun, WU Ke, et al ..... (3479)

## Study on the Frequency of Extracorporeal Shock Wave Lithotripsy in Patients

with Single Ureteral Calculi and Discussion on the Influencing Factors of Lithotripsy Effect

GUO Chong-bo, LI Wen-hua, FAN Jie, et al ..... (3484)

## Expression of Long Chain Non-coding RNA HIT000218960 in Gastric Cancer Tissues

and Its Relationship with Clinicopathological Characteristics and Prognosis of Patients

WANG Hui-hui, JIA Xi-feng, WANG Lin-lin, et al ..... (3489)

## Relationship Study between Serum Carcinoembryonic Antigen, Gastrin 17, Midkin,

Progastrin Releasing Peptide and Postoperative Recurrence Risk

in Patients with Radical Gastrectomy

Aihesan·Kamili, Xiaokaiti·Abduhader, YANG Peng, et al ..... (3494)

## Relationship between Serum OC, 25(OH)D and PTH Levels

and Thoracolumbar Fracture in Elderly Patients with Osteoporosis

and Its Predictive Value Analysis

ZHANG Jian-hua, DAN Gang, HU Li-na, et al ..... (3499)

## Pathogenic Bacteria Distribution, Drug Sensitivity Analysis and Risk Factors of Hospital Death

in Patients with Severe Acute Pancreatitis Complicated with Intra-Abdominal Infection

LI Yu-rong, DENG Wei, WANG Xin-gang, et al ..... (3504)

## Study on the Relationship between Serum cfDNA, VEGFA and Chemotherapy Efficacy

and Prognosis in Patients with Advanced Gastric Cancer

LI Hao, WANG Jian-zhong, HE Chun-yan, et al ..... (3510)

## The Relationship between Serum Sestrin2 Level and Cardiovascular Diseases

in Patients with Type 2 Diabetes Mellitus and Analysis of its Predictive Value

JIAO Zheng, XIAO Tian-tian, YIN Jing-jing, et al ..... (3514)

# Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 18

September 30 2023

## Expression Levels of Serum APOC1, LDH and Inflammatory Infection Indicators

### in Children with Refractory Mycoplasma Pneumonia

### and Their Correlation with Pulmonary Ventilation Function and Prognostic Effect

LU Ming-yan, LIU Xiao-feng, ZHANG Yu-xiang, et al ..... (3519)

## Effect of Gongying Yiwei Decoction combined with Quadruple Therapy on Chronic Gastritis

### and *Helicobacter Pylori* Infection

MIN Bin, GUO Chun-xia, GUO Li, et al ..... (3524)

## Effects of Serum 5-HT, TNF- $\alpha$ and Complement C1q on Antidepressant Efficacy

### in Patients with Acute Stage of Major Depressive Disorder

SANG Ye, ZHANG Bei, LIU Chun-yan, et al ..... (3528)

## Effect of Coenzyme Q10 Combined with Tegrel on Unstable Angina Pectoris of

### Coronary Heart Disease and Its Influence on Coronary Blood Flow Parameters

LI Jing, ZHAO Xiao-jing, WEI Xiao-jie, et al ..... (3533)

## Study on the Relationship between SII, COP-NLR Scores and Clinical Pathological Characteristics

### and Prognosis in Locally Advanced Nasopharyngeal Carcinoma Patients

XIE Ning, WANG Ying, LIU Shu-jun, et al ..... (3538)

## Study on the Relationship between Carotid Artery Elastic Ultrasound Parameters

### and Left Ventricular Diastolic Function in Patients with Prehypertension

ZHENG Ying-juan, LI Chao-xi, NIU Ya-jun, et al ..... (3543)

## Correlation between Blood Lipid, Platelet Parameters, HOMA-IR and PSG Parameters

### in Patients with Obstructive Sleep Apnea Hypopnea Syndrome

### Complicated with Hypertension and their Predictive Value Study

WANG Sheng, ZHANG Wen-hui, LU Li-guo, et al ..... (3548)

## Relationship Study between Serum miR-29a-3p and miR-98-5p Expression Levels

### and Lung Function, Airway Inflammation and Sensitivity to Glucocorticoid Therapy

### in Patients with Bronchial Asthma

ZHU Xiu-zhi, WANG Le-qiang, ZHAO Yan-xia, et al ..... (3554)

## Epidemiological Investigation of Hearing Impairment in Children Aged 0~14 Years

### in Suzhou and Logistic Regression Analysis of its Pathogenic Factors

MA Hui-min, ZHAO Qing, YIN De-pei, et al ..... (3559)

# Progress in Modern Biomedicine

Established in April 2001

Volume 23 Number 18

September 30 2023

## Analysis of the Value of Three-dimensional Speckle Ultrasound

### Combined with SYNTAX Score in the Diagnosis of Coronary Heart Disease

DING Bing-qian, MAO Wei-wei, CHEN Juan, et al ..... (3564)

## Effect of Feilike Capsule Combined with Budesonide and Formoterol Powder Inhalation on Blood Gas

### Analysis Indexes and MMP-9/TIMP-1 Imbalance

#### in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease

CUI Hong-fu, TAI Chun, WANG Qian, et al ..... (3568)

## Distribution of Pathogenic Bacteria and Clinical Significance of CD64 Index, Serum sTREM1

### and HMGB1 Expression in Postoperative Infectious Endophthalmitis in Cataract Patients

ZHANG Qing-yun, LÜ Ai-hua, LI Bin, et al ..... (3572)

## Effect of Puji Zhichuang Suppository Combined with Huazhuo Jiedu Formula Retention Enema

### in the Treatment of Anal Sinusitis and its Influence on Pain Mediators, Immune Function and Recurrence Rate

CHEN Shan-hu, MA Qian, WU Chun-xiao, et al ..... (3577)

## Effects of Thrombolytic Capsule Combined with Butylphthalide Soft Capsule on Hemorheology,

### Cerebral Hemodynamics and Nerve Factors in Patients with Cerebral Infarction

#### in the Recovery Period

CHEN Feng, LIU Hong, CHENG Kun, et al, et al ..... (3582)

## Correlation of Plasma Periostin, cTnI and BNP with Wall Stress

### in Patients with Dilated Cardiomyopathy

CHEN Cheng, YU Yuan-yuan, LUO Xian-dao, et al ..... (3586)

## Application Value of Serum AGR, CEA, CA199 and MIC-1 Expression

### in the Diagnosis and Prognosis Evaluation of Elderly Colorectal Cancer

WANG Feng, LI Chun-mei, LI Nan-yang, et al ..... (3591)

## Clinical Efficacy of DEB-TACE Combined with Carrelizumab

### in the Treatment of Advanced Liver Cancer and Its Influence on Tumor Markers and T Lymphocyte Subsets

YANG Jing, ZHANG Qing-qiao, WEI Ning, et al ..... (3596)



# 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。



Institute of Scientific and Technical Information of China

北京复兴路 15 号 100038 [www.istic.ac.cn](http://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

