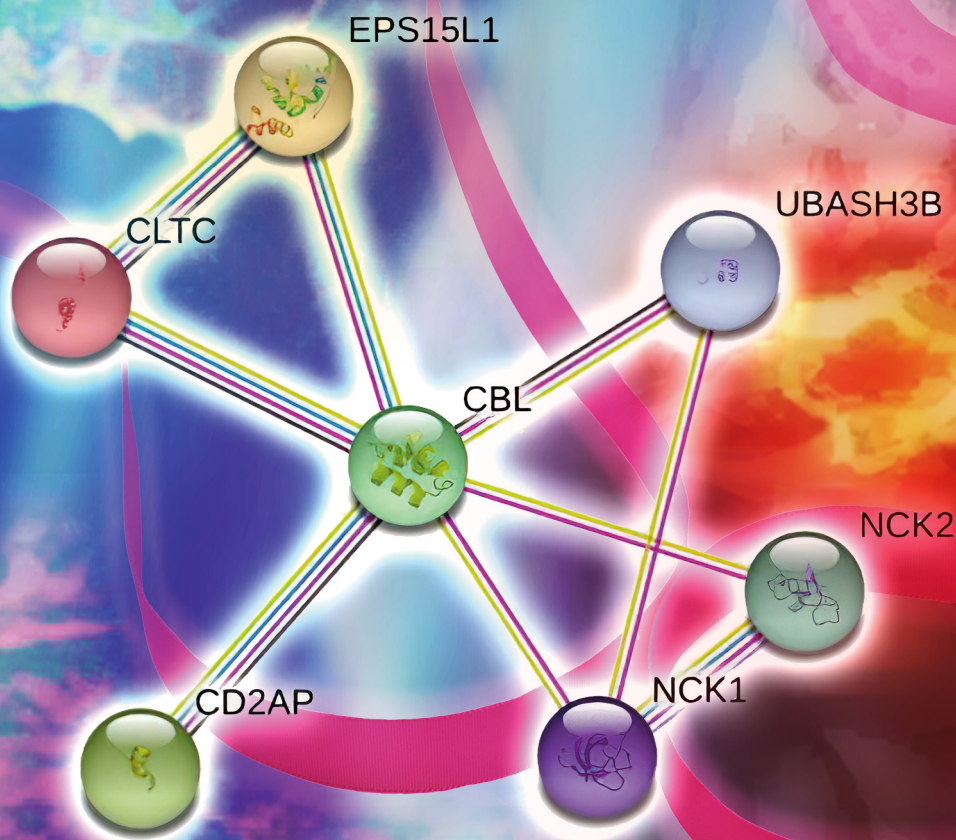


Journal of
Southern Medical University

南方医科大学学报

Volume 42 Number 11 November 2022 | 第42卷 第11期 2022年11月



南方医科大学学报

第 42 卷 第 11 期 2022 年 11 月

目 次

基础研究

- 1594 CBL 通过泛素化降解 NCK2 抑制乳腺癌细胞的增殖和侵袭
宋筱羽,肖 斌,陆景润,张文武,李锦潮,竹 昕,孙朝晖,李林海
- 1604 Aumolertinib 可体内外抑制人脉络膜黑色素瘤 MUM-2B 细胞的增殖
李 娟,王爱莲,李 宁,祝英泽,李 坤,刘 浩,高自清
- 1611 *Fkbp38* 基因缺失导致小鼠早发性卵巢功能不全:基于激活 *mTOR* 通路并诱导细胞凋亡
周玉霞,赵茜茜,帅 领,余加杰,刁瑞英,汪丽萍
- 1628 敲低 galectin-1 可抑制肺腺癌细胞的增殖、迁移和侵袭并促进其凋亡
陈文邦,朱 潇,周 少,杏福宝,唐 震,李小明,张 雷
- 1662 轻型多尺度黑色素瘤目标检测网络模型的建立:基于注意力机制调控
钟友闻,车文刚,高盛祥
- 1672 胎儿心电信号的无创提取:基于时间卷积编解码网络
曹 石,巩 高,肖 慧,方威扬,阙与清,陈超敏
- 1681 类黑色素纳米颗粒联合近红外光照射具有良好的抗卵巢癌作用
杨洁容,陈小平
- 1705 黄芪多糖减轻大鼠中动脉闭塞模型大鼠的血脑屏障损伤:基于抑制 P2X7R 通道
袁 巧,谢丽英,陈朝俊
- 1726 程氏蠲痹汤通过抑制 PI3K/Akt/mTOR 信号轴促进类风湿关节炎滑膜成纤维细胞的自噬
孙广瀚,许 霞,万 磊,南淑玲,王玉凤,赵 黎,程 卉,王 坤,刘 莹,方妍妍,孙 朗,朱 俊
- 1732 基于氧化亚铜纳米颗粒的光热/化学动力协同策略体外抑制胃癌细胞的迁移
温海飞,黄显莹
- 1739 苦参碱联合 LY294002 对人髓系白血病 K562 细胞增殖、凋亡和细胞周期的影响
郝艳梅,纪俊莉,刘纯艺,张 楠,宫雅娟

临床研究

- 1587 过表达 miR-607 通过下调 TRPC5 表达抑制肝细胞癌的生长和转移
李 超,陈双江,姜业臻
- 1618 甲状腺^{99m}TcO₄显像 ROI 比值的作用:估算个体化治疗甲亢的¹³¹I 剂量
齐永帅,池晓华,江 英,黄 凯,刘 峰,刘智维,唐刚华,李贵平
- 1638 MiR-4772 通过调控卵巢癌免疫相关基因改变肿瘤免疫微环境
赵爱月,苏云霞,傅德强
- 1646 经导管主动脉瓣置换术前测量主动脉根部参数的一致性及与短期预后的关联性:基于 Anythink 和 3mensio CT 软件比较
刘长福,孙泽瑜,王 晶,王民汉,辛 然,丁熠璞,王 玺,穆 洋,陈 韬,蒋 博,王 琳,章 明,单冬凯,陈韵岱

- 1655 慢性药物性肝损伤的复发风险与肝纤维化程度高度相关
邓 亚,王春艳,付懿铭,李忠斌,纪 冬
- 1689 内皮素-1 和结缔组织生长因子在心房颤动患者中高表达并与射频消融术后的复发相关
高 琦,耿嘉逸,丁洋洋,姚卓亚,孟金金,王 聪,张 恒,康品方,唐 碧
- 1697 LINC01285 促进结直肠癌细胞的增殖和转移
朱显军,罗喜俊,李 涛,梁俊杰,何嘉琳,唐兴奎
- 1712 MiR-342-3p 在类风湿关节炎患者中低表达并促进滑膜成纤维细胞的炎症和迁移
周 琴,刘 健,孙艳秋,陈晓露,张先恒,丁 香
- 1720 Wilson 病脂代谢异常患者发生肝纤维化的列线图预测模型的建立与验证
赵晨玲,董 婷,孙伦燕,胡慧冰,王 琼,田丽伟,江张胜

封面图片: CBL 基因高表达与乳腺癌预后良好密切相关,研究证明 CBL 过表达能够抑制乳腺癌细胞的增殖和侵袭,其抑癌机制可能与 CBL 介导 NCK2 的泛素化修饰及降解有关,该现象为乳腺癌的早期诊断和靶向治疗提供了新思路(宋筱羽,南方医科大学检验与生物技术学院,正文见本期 1594~1603 页)。

主 编:陈敏生
编辑部主任:陈望忠
本期责任编辑:经 媛
英文责任编辑:宋建武
本期技术编辑:林立华
本期责任校对:孙昌朋 吴锦雅 余诗诗 林 萍
本期责任编辑:刘红艳
期刊基本参数:CN 44-1627/R*1981*m*A4*120*zh+en*P*¥10:00*1500*20*2022-11
出 版 日 期:2022-11-20

NANFANG YIKE DAXUE XUEBAO

Journal of Southern Medical University

Volume 42 Number 11 November 2022

Contents

Basic Research

- 1594 CBL inhibits proliferation and invasion of breast cancer cells by ubiquitylation-mediated degradation of NCK2
SONG Xiaoyu, XIAO Bin, LU Jingrun, ZHANG Wenwu, LI Jinchao, ZHU Xin, SUN Zhaohui, LI Linhai
- 1604 Aumolertinib inhibits growth of human choroidal melanoma MUM-2B cells *in vitro* and *in vivo*
LI Juan, WANG Ailian, LI Ning, ZHU Yingze, LI Kun, LIU Hao, GAO Ziqing
- 1611 *Fkbp38* deletion induces premature ovarian insufficiency in mice by activating mTOR signaling and inducing granulosa cell apoptosis
ZHOU Yuxia, ZHAO Huihui, SHUAI Ling, SHE Jiajie, DIAO Ruiying, WANG Liping
- 1628 Galectin-1 knockdown inhibits proliferation, migration, invasion and promotes apoptosis of lung adenocarcinoma cells *in vitro*
CHEN Wenbang, ZHU Xiao, ZHOU Sao, XING Fubao, TANG Zhen, LI Xiaojun, ZHANG Lei
- 1662 A lightweight multiscale target object detection network for melanoma based on attention mechanism manipulation
ZHONG Youwen, CHE Wengang, GAO Shengxiang
- 1672 Fetal ECG extraction using temporal convolutional encoder-decoder network
CAO Shi, GONG Gao, XIAO Hui, FANG Weiyang, QUE Yuqing, CHEN Chaomin
- 1681 Natural melanin-based nanoparticles with photothermal/photodynamic activities induce ovarian cancer cell death
YANG Jierong, CHEN Xiaoping
- 1705 Astragalus polysaccharide protects against blood-brain barrier damage in MCAO rats by inhibiting P2X7R channel
YUAN Qiao, XIE Liying, CHEN Chaojun
- 1726 *Cheng's Juanbi* Decoction enhances autophagy in rheumatoid arthritis fibroblast-like synoviocytes by suppressing the PI3K/Akt/mTOR signal axis
SUN Guanghan, XU Xia, WAN Lei, NAN Shuling, WANG Yufeng, ZHAO Li, CHENG Hui, WANG Kun, LIU Ying, FANG Yanyan, SUN Lang, ZHU Jun
- 1732 Cuprous oxide nanoparticles-based photothermal and chemodynamic synergistic therapy inhibits proliferation and migration of gastric cancer cells *in vitro*
WEN Haifei, HUANG Xianying
- 1739 Effects of matrine combined with LY294002 on proliferation, apoptosis and cell cycle of human myeloid leukemia K562 cells
HAO Yanmei, JI Junli, LIU Chunyi, ZHANG Nan, GONG Yajuan

Clinical Research

- 1587 Overexpression of miR-607 inhibits hepatocellular carcinoma cell growth and metastasis by down-regulating TRPC5
LI Chao, CHEN Shuangjiang, JIANG Yezhen
- 1618 Value of thyroid ^{99m}TcO₄ imaging ROI ratio for estimating ¹³¹I dose in individualized treatment of hyperthyroidism
QI Yongshuai, CHI Xiaohua, JIANG Ying, HUANG Kai, LIU Feng, LIU Zhiwei, TANG Ganghua, LI Guiping
- 1638 MiR-4772 modulates tumor immune microenvironment by regulating immune-related genes in ovarian cancer
ZHAO Aiyue, SU Yunxia, FU Deqiang
- 1646 Anythink for CT-based aorta root measurements before transcatheter aortic valve replacement: measurement consistency with 3mensio and impact on short-term prognosis
LIU Changfu, SUN Zeyu, WANG Jing, WANG Minhan, XIN Ran, DING Yipu, WANG Xi, MU Yang, CHEN Tao, JIANG Bo, WANG Lin, ZHANG Ming, SHAN Dongkai, CHEN Yundai

- 1655
- A high relapse risk of chronic drug-induced liver injury is correlated with a greater severity of liver fibrosis
- DENG Ya, WANG Chunyan, FU Yiming, LI Zhongbin, JI Dong
- 1689
- Serum levels of endothelin-1 and connective tissue growth factor are elevated in patients with atrial fibrillation and correlated with relapse following radiofrequency ablation
- GAO Qi, GENG Jiayi, DING Yangyang, YAO Zhuoya, MENG Jinjin, WANG Cong, ZHANG Heng, KANG Pinfang, TANG Bi
- 1697
- LINC01285 promotes proliferation and metastasis of colorectal cancer cells by regulating epithelial-mesenchymal transition
- ZHU Xianjun, LUO Xijun, LI Tao, LIANG Junjie, HE Jialin, TANG Xingkui
- 1712
- Expression of miR-342-3p in rheumatoid arthritis patients and its effect on synovial fibroblast inflammation and migration
- ZHOU Qin, LIU Jian, SUN Yanqiu, CHEN Xiaolu, ZHANG Xianheng, DING Xiang
- 1720
- Establishment and validation of a predictive nomogram for liver fibrosis in patients with Wilson disease and abnormal lipid metabolism
- ZHAO Chenling, DONG Ting, SUN Lunyan, HU Huibing, WANG Qiong, TIAN Liwei, JIANG Zhangsheng

Cover image: CBL overexpression is strongly associated with a favorable prognosis of breast cancer. CBL overexpression is shown to inhibits proliferation and invasion of breast cancer cells possibly by mediating ubiquitination modification and degradation of NCK2, which provides new insights into early diagnosis and targeted treatment of breast cancer. Provided by SONG Xiaoyu, School of Laboratory Medicine and Biotechnology, Southern Medical University. See full-text article on page 1594-1603 in this issue.

Editor-in-Chief: CHEN Minsheng
Editorial Director: CHEN Wangzhong
Executive Editor: JING Yuan
English Editor: SONG Jianwu
Executive Technical Editor: LIN Lihua
Executive Proofreaders: SUN Changpeng WU Jinya YU Shishi LIN Ping
Photo Editor: LIU Hongyan
Publication Date: 2022-11-20