

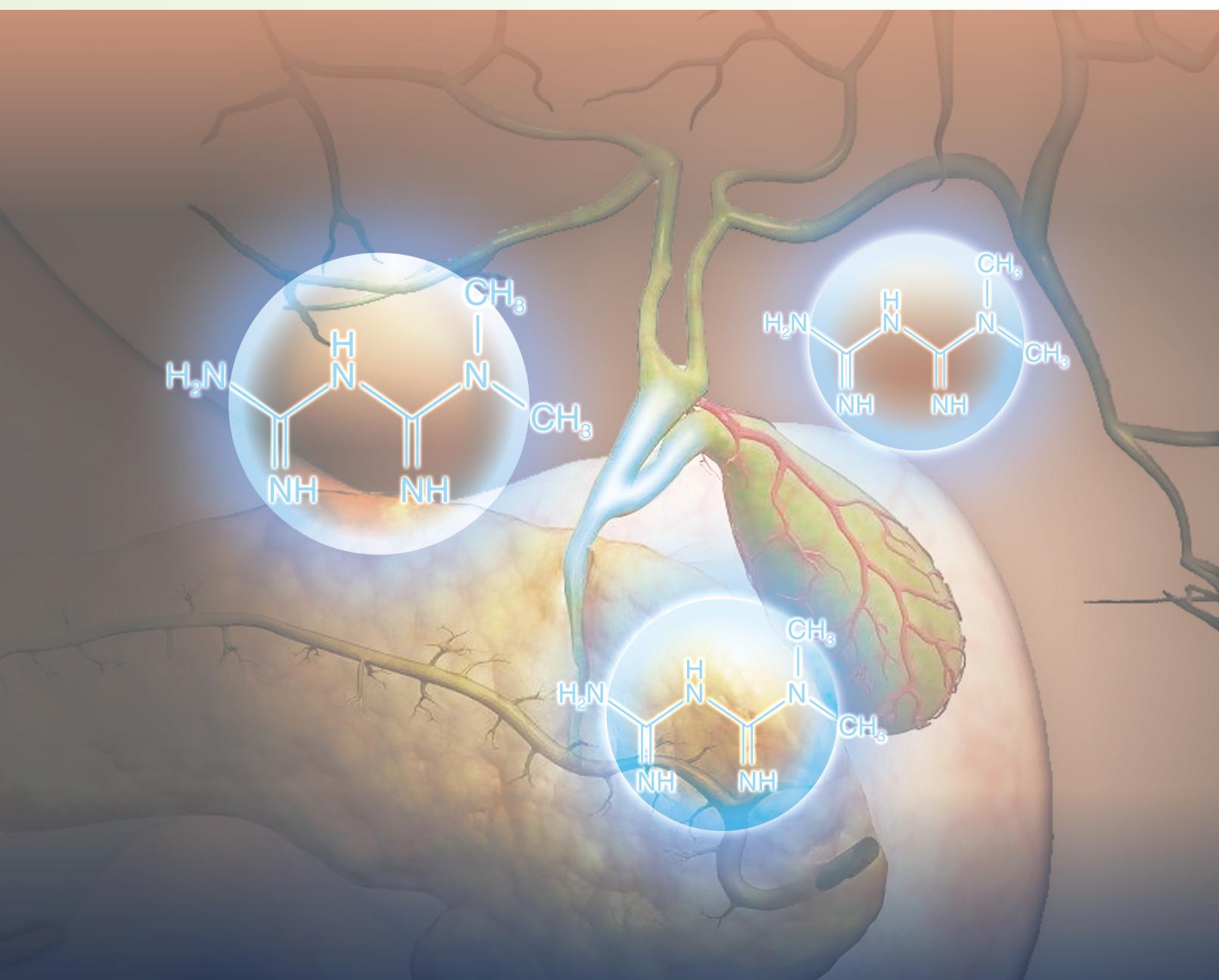


ISSN 1673-4254  
CN 44-1627/R

# Journal of Southern Medical University

## 南方医科大学学报

2020  
Volume 40  
Number 5





# 南方医科大学学报

第 40 卷 第 5 期 2020 年 5 月

## 目 次

### 基础研究

- 609 神经性厌食症大鼠伏隔核与延髓头端腹外侧区的神经通路联系  
魏雯雯,吴琼波,郑超,汪萌芽,张环环
- 616 基于网络药理学和分子对接技术分析清肺排毒汤治疗COVID-19的机制  
鄢海燕,邹妍,邹纯才
- 624 从CXCL12/CXCR4轴探析空瓶诱导的慢性情绪应激对急性心肌梗死大鼠炎性因子的影响  
侯季秋,陈雅丽,马迪,王超,靳会会,安莹,赵海滨
- 632 内质网应激介导的Kupffer细胞源性TNF- $\alpha$ 经TNFR/caspase 8途径诱导肝星状细胞凋亡  
高宏,文楠,徐雪松,洪国庆,赖星
- 640 二甲双胍抑制大鼠胆管成纤维细胞胶原生成的分子信号机制  
卢家美,张晶晶,吕毅,王博,贾丽娜,师建华
- 647 胆碱能抗炎通路对脓毒症大鼠早期炎症与免疫反应具有负向调控作用  
李红兵,李媛,王武石,彭宗爽,吴芳
- 654  $\beta$ -arrestin1过表达抑制Molt-4细胞异种移植小鼠急性T淋巴细胞白血病进展  
张佳,舒逸,张虹洋,蒋婷婷,宫茂源,朱丹,王皓飚,邹琳
- 670 异氟醚预处理通过抑制caspase-11相关的非经典细胞焦亡途径减轻小鼠肝脏缺血再灌注损伤  
王小莹,刘作金,申丽娟
- 676 依托咪酯降低新生大鼠离体脊髓腹角神经元的兴奋性及抑制nAChR的功能  
朱苏月,黄艳,靳娜,杨鑫宇,张环环,徐爱萍,汪萌芽,郑超
- 698 长链非编码RNA MALAT1靶向miR-485-3p调控乳腺癌细胞对紫杉醇的耐药性  
艾尼·沙塔尔,闫焕英,丁伟,阿迪力江,苏鹏程
- 708 痰瘀同治法对糖尿病大鼠肾脏TGF- $\beta$ 1/Smad3信号通路的影响  
储全根,蔡正银,储俊,轩云,程婕,王盼
- 713 定量资料非平衡设计下各组样本量对检验效能的影响  
梁绮红,余晓琳,安胜利
- 727 弓形虫感染导致DC2.4细胞外泌体特征差异的研究  
李东亮,杨淑君,彭鸿娟
- 765 miR-144通过影响TLR/MyD88通路抑制肝癌SMMC-7721细胞侵袭  
易青松,柳久久,艾热夏提·库尔班,李竞,罗宏武,孙吉春

### 临床研究

- 661 食管鳞癌患者血清中lncRNA-TUSC7的表达及与细胞侵袭转移的关系  
赵珂,郭玉刚,霍正,马国辉,张桂,邢雨欣,徐茜





- 683 BUB1基因在胃癌组织中高表达:基于Oncomine数据库及生物信息学方法  
李小燕,何杰,余觅,张维,孙建
- 693 超声引导下细针穿刺细胞学检测不同大小可疑甲状腺结节的阳性率及准确率  
赵美丽,杨炜,李金凤,王自正,邵国强
- 703 老年阻塞性睡眠呼吸暂停综合征严重度与红细胞体积分布宽度的相关性  
武淑萍,高莹卉,钱小顺,赵力博,徐虎,徐伟豪,孔晓萱,杨阳,车贺宾,王亚斌,袁熹娜,刘霖
- 718 单孔胸腔镜手术术前定位技术的应用价值:基于54例孤立性肺结节的临床观察  
廖明,何哲,徐恩五,吴德华
- 723 超声龈下刮治联合手工根面平整治疗老年慢性牙周炎  
霍文艳,王海锋,刘思思,刘亚男
- 752 痛风患者超声心动图参数的相关性分析  
孙广瀚,刘健,万磊,龙琰,鲍丙溪,张颖

## 流行病学调查

- 733 疫情严重地区居民对COVID-19的知识、态度、行为调查  
胡友坤,张高强,李志浩,杨佳妮,莫丽君,张希如,熊莉莉,吴炜亮,毛琛,杨杏芬
- 741 广东境外输入性COVID-19病例入境至确诊间隔时间的影响因素分析  
程琳,徐慧兰
- 746 中文版手机依赖性问卷在大学生群体的信度和效度分析  
林连虹,许晓珩,方乐琴,谢丽凯,林晓敏,陈焱林,郑馥盈,贝燕柔,张璐,张斌

## 综述

- 759 牙周致病菌与系统性疾病的相关性研究进展  
杜芹,马歆茹

**封面图片:**二甲双胍激活的AMPK针对TGF- $\beta$ 1诱导的胆管成纤维细胞胶原生成的分子信号机制,通过显著抑制胶原生成抑制良性胆管狭窄(BBS),为BBS的防治提供了一种新的治疗策略(卢家美,西安交通大学第二附属医院肾内科,正文见本期640~646页)。

主 编:陈敏生

编 辑 部 主 任:陈望忠

本 期 责 任 编 辑:林萍

英 文 责 任 编 辑:宋建武

本 期 技 术 编 辑:林立华

本 期 责 任 校 对:吴锦雅 孙昌朋 经 媛 余诗诗

本 期 责 任 编 务:王均 刘红艳

期 刊 基 本 参 数:CN 44-1627/R\*1981\*m\*A4\*120\*zh+en\*P\* ¥ 10:00\*1500\*25\*2020-05

出 版 日 期:2020-05-20



NANFANG YIKE DAXUE XUEBAO  
Journal of Southern Medical University

Volume 40 Number 5 May 2020

**Contents**

**Basic Research**

- 609 Neural pathway between the nucleus accumbens and the rostral ventrolateral medulla in a rat model of anorexia nervosa  
*WEI Wenwen, WU Qiongbo, ZHENG Chao, WANG Mengya, ZHANG Huanhuan*
- 616 Mechanism of *Qingfei Paidu* decoction for treatment of COVID-19: analysis based on network pharmacology and molecular docking technology  
*YAN Haiyan, ZOU Yan, ZOU Chuncai*
- 624 Effect of chronic emotional stress induced by empty bottle stimulation on inflammatory factors in rats with acute myocardial infarction: analysis of the CXCL12/CXCR4 axis  
*HOU Jiqiu, CHEN Yali, MA Di, WANG Chao, JIN Huihui, AN Ying, ZHAO Haibin*
- 632 Endoplasmic reticulum stress enhances tumor necrosis factor- $\alpha$  expression in rat Kupffer cells to trigger hepatic stellate apoptosis cell through TNFR/caspase-8 pathway  
*GAO Hong, WEN Nan, XU Xuesong, HONG Guoqing, LAI Xing*
- 640 Metformin inhibits collagen production in rat biliary fibroblasts: the molecular signaling mechanism  
*LU Jiamei, ZHANG Jingjing, LÜ Yi, WANG Bo, JIA Lina, SHI Jianhua*
- 647 Cholinergic anti-inflammatory pathway plays negative regulatory role in early inflammatory and immune responses in septic rats  
*LI Hongbing, LI Yuan, WANG Wushi, PENG Zongshuang, WU Fang*
- 654  $\beta$ -arrestin1 overexpression suppresses progression of human T-cell acute lymphatic leukemia Molt-4 cell xenograft in mice  
*ZHANG Jia, SHU Yi, ZHANG Hongyang, JIANG Tingting, GONG Maoyuan, ZHU Dan, WANG Haobiao, ZOU Lin*
- 670 Isoflurane preconditioning inhibits caspase-11-related noncanonical pyroptosis pathway to alleviate hepatic ischemia-reperfusion injury in mice  
*WANG Xiaoying, LIU Zuojin, SHEN Lijuan*
- 676 Etomidate reduces excitability of the neurons and suppresses the function of nAChR ventral horn in the spinal cord of neonatal rats  
*ZHU Suyue, HUANG Yan, JIN Na, YANG Xinyu, ZHANG Huanhuan, XU Aiping, WANG Mengya, ZHENG Chao*
- 698 Long-chain non-coding RNA MALAT1 regulates paclitaxel resistance of breast cancer cells by targeting miR-485-3p  
*Aini Shatar, YAN Huanying, DING Wei, Adilijiang, SU Pengcheng*
- 708 Intervention of phlegm and blood stasis inhibits TGF- $\beta$ 1/Smad3 signaling pathway in the kidney of diabetic rats  
*CHU Quangen, CAI Zhengyin, CHU Jun, XUAN Yun, CHENG Jie, WANG Pan*
- 713 Influence of group sample size on statistical power of tests for quantitative data with an imbalanced design  
*LIANG Qihong, YU Xiaolin, AN Shengli*
- 727 Characteristics of exosomes secreted by *Toxoplasma gondii*-infected mouse dendritic DC2.4 cells  
*LI Dongliang, YANG Shujun, PENG Hongjuan*
- 765 Over-expression of miR-144 inhibits invasion of liver cancer SMMC-7721 cells *in vitro* by suppressing TLR/MyD88 pathway  
*YI Qingsong, LIU Jiujiu, Alexia Kurban, LI Jing, LUO Hongwu, SUN Jichun*



## Clinical Research

- 661 Serum level of lncRNA TUSC7 in patients with esophageal squamous cell carcinoma and its role in promoting tumor cell migration and invasion  
[ZHAO Ke](#), [GUO Yugang](#), [HUO Zheng](#), [MA Guohui](#), [ZHANG Gui](#), [XING Yuxin](#), [XU Qian](#)
- 683 BUB1 gene is highly expressed in gastric cancer: analysis based on Oncomine database and bioinformatics  
[LI Xiaoyan](#), [HE Jie](#), [YU Mi](#), [ZHANG Wei](#), [SUN Jian](#)
- 693 Positive rate and accuracy of ultrasound-guided fine-needle aspiration cytology for detecting suspected thyroid carcinoma nodules of different sizes  
[ZHAO Meili](#), [YANG Wei](#), [LI Jinfeng](#), [WANG Zizheng](#), [SHAO Guoqiang](#)
- 703 Correlation between severity of obstructive sleep apnea syndrome and red cell distribution width in elderly patients  
[WU Shuping](#), [GAO Yinghui](#), [QIAN Xiaoshun](#), [ZHAO Libo](#), [XU Hu](#), [XU Weihao](#), [KONG Xiaoxuan](#), [YANG Yang](#), [CHE Hebin](#), [WANG YaBin](#), [Yuan Xina](#), [LIU Lin](#)
- 718 Value of preoperative localization techniques for solitary pulmonary nodules in single-port thoracoscopic surgery  
[LIAO Ming](#), [HE Zhe](#), [XU Enwu](#), [WU Dehua](#)
- 723 Ultrasound subgingival scaling combined with manual root planing for treatment of chronic periodontitis in elderly patients  
[HUO Wenyan](#), [WANG Haifeng](#), [LIU Sisi](#), [LIU Yanan](#)
- 752 Correlations of echocardiographic parameters in Gout patients: a retrospective analysis  
[SUN Guanghan](#), [LIU Jian](#), [WAN Lei](#), [LONG Yan](#), [BAO Bingxi](#), [ZHANG Ying](#)

## Epidemiological survey

- 733 Knowledge, attitudes, and practices related to COVID-19 pandemic among residents in Hubei and Henan Provinces  
[HU Youkun](#), [ZHANG Gaoqiang](#), [LI Zhihao](#), [YANG Jiani](#), [MO Lijun](#), [ZHANG Xiru](#), [XIONG Lili](#), [WU Weiliang](#), [MAO Chen](#), [YANG Xingfen](#)
- 741 Interval between entry of mainland China and diagnosis in imported COVID-19 cases and factors contributing to delayed diagnosis in Guangdong Province  
[CHENG Lin](#), [XU Huilan](#)
- 746 Validity and reliability of the Chinese version of Mobile Phone Involvement Questionnaire in college students  
[LIN Lianhong](#), [XU Xiaoheng](#), [FANG Leqin](#), [XIE Likai](#), [LING Xiaomin](#), [CHEN Yanlin](#), [ZHENG Fuying](#), [BEI Yanrou](#), [ZHANG Lu](#), [ZHANG Bin](#)

## Review

- 759 Research progress of correlation between periodontal pathogens and systemic diseases  
[DU Qin](#), [MA Xinru](#)

**Cover image:** The image illustrates the molecular signaling mechanism of TGF- $\beta$ 1-stimulated collagen generation as an event following metformin-induced activation of AMPK in biliary fibroblasts. Metformin inhibits the occurrence of benign biliary stricture (BBS) by significantly suppressing collagen generation, which provides a new strategy for treatment of BBS. Provided by LU Jiamei, Department of Nephrology, Second Affiliated Hospital Xi'an Jiaotong University College of Medicine. See full-text article on page 640-646 in this issue.

**Editor-in-Chief:** [CHEN Minsheng](#)

**Editorial Director:** [CHEN Wangzhong](#)

**Executive Editor:** [LIN Ping](#)

**English Editor:** [SONG Jianwu](#)

**Executive Technical Editor:** [LIN Lihua](#)

**Executive Proofreaders:** [WU Jinya](#) [SUN Changpeng](#) [JING Yuan](#) [YU Shishi](#)

**Photo Editor:** [WANG Jun](#) [LIU Hongyan](#)

**Publication Date:** [2020-05-20](#)