



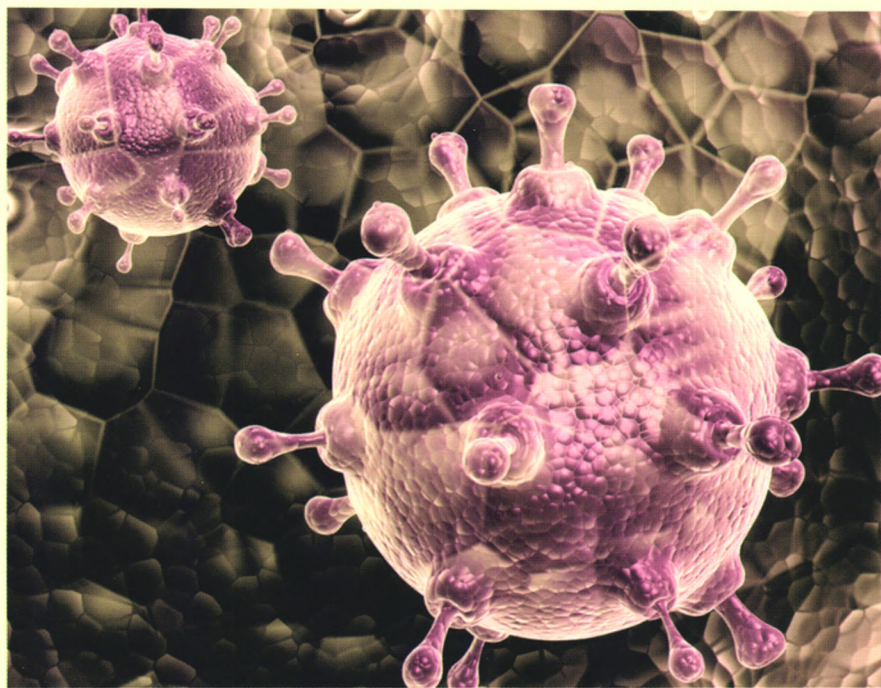
Q K 1 8 0 1 2 4 3

ISSN 1673-6273

CN 23-1544/R

CODEN SXJTA8

XIAN DAI SHENG WU YI XUE JIN ZHAN
现代生物医学进展
PROGRESS IN MODERN BIOMEDICINE



2017年第17卷 (第30期)

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

美国化学文摘 (CA) 检索期刊

俄罗斯文摘杂志 (AJ) 收录期刊

美国剑桥文摘 (CSA) 收录期刊

英国Global Health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

Genamics Journal Seek收录期刊

美国ProQuest数据库收录期刊

美国EBSCO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 627177



万方数据

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

旬刊 2001年4月创刊 第17卷 第30期 2017年10月30日出版 Progress in Modern Biomedicine

主 管:黑龙江省卫生厅
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.net.cn
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
傅世英 王迺谦 刘玉清
郝希山 曾益新 张岂凡
主 编: 申宝忠
执行主编: 吴文忠
执行副主编: 孟庆刚
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
广告经营许可证:2301004050020
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 1080.00 元
中国标准刊号: ISSN 1673-6273
CN 23-1544/R
2017 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 ·

- KCa3.1 通道参与调控星形胶质细胞糖氧
剥夺诱导的内质网应激
..... 易梦妮 韦天娇 陆 琴等 (5801)
- 小鼠骨髓来源肥大细胞的培养及鉴定
..... 彭 霞 梁玉婷 林 堃等 (5807)
- 华蟾素联合顺铂对人骨肉瘤 U2OS 细胞
增殖和凋亡的影响
..... 代 国 陶春杰 郑 迪等 (5812)
- 骨化三醇对自身免疫性甲状腺炎大鼠 T 淋巴
细胞亚群的影响
..... 董笑克 洪明昭 韩艺凡等 (5818)
- RNA 干扰 Mcl-1 基因表达对淋巴瘤 Raji 细胞
增殖和凋亡的机制研究
..... 任婧婧 李 光 刘志勤等 (5823)
- 1840 MHz 射频辐射对大鼠血脑屏障
通透性的影响
..... 高 鹏 张克英 周 艳等 (5827)
- 非酒精性脂肪性肝病大鼠肠粘膜紧密连接
蛋白 ZO-1 及肌球蛋白轻链激酶的变化
..... 吴 云 李春苗 刘喃喃等 (5832)
- 二甲双胍联合卡铂对三阴性乳腺癌细胞增殖的影响
..... 赵晓红 冯 丽 张百红等 (5837)
- Orexin 受体 1 对摄食条件反射的调控研究
..... 邢乾乾 胡沙沙 郭菲菲等 (5840)
- FBW7 泛素化修饰 Snail 促进上皮间质转化的实验研究
..... 张 勇 叶明翔 张信信等 (5844)

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

旬刊 2001年4月创刊 第17卷 第30期 2017年10月30日出版 Progress in Modern Biomedicine

·临床研究·

微创下置管抽吸液化引流术联合依达拉奉对脑出血患者的疗效分析
..... 郭清保 李立宏 杨彦龙等 (5849)

直肠系膜切除术对直肠癌根治术后局部复发患者 MMPs、CEA、CA199 及生存率的影响
..... 党长宁 于永铎 刘铁龙等 (5853)

内镜下注射聚桂醇与组织胶治疗肝硬化食管胃底静脉曲张的疗效观察
..... 李振磊 邹晓平 吴毓麟等 (5858)

连续股神经阻滞与静脉自控镇痛对全膝关节置换术后患者凝血功能的影响
..... 田 明 李战宁 崔海斌等 (5862)

PLIF 和 PLF 在下腰椎单节段腰椎滑脱中的治疗疗效比较 李耀章 张巧凤 党培业等 (5866)

儿童过敏性紫癜合并消化道出血的影响因素分析 王 琳 吴小艳 彭 华等 (5870)

头孢哌酮钠舒巴坦钠联合莫西沙星治疗老年重症肺炎的疗效研究 ... 贺 丹 武润松 曹留霞等 (5874)

皮肤性病患者人乳头瘤病毒基因分型检测的临床分析 孙 慧 尹兴平 蒋屏东等 (5879)

二甲双胍片联合糖脉康颗粒对 2 型糖尿病患者血清 IL-6、TNF-α、CRP、APN 水平的影响
..... 林 源 高海燕 周 芳等 (5883)

恩替卡韦联合聚乙二醇干扰素 α-2a 治疗慢性乙型肝炎的临床疗效 ... 王洪旗 肖 璐 孙 曦等 (5887)

吸入激素对 ACOS 患者的临床疗效及对内皮细胞功能的影响 周 立 宋立强 程旭东等 (5892)

呼出气一氧化氮水平与支气管哮喘患儿病情及炎症因子的关系研究 ... 周武斌 李开为 利 莉等 (5896)

中医多途径综合疗法治疗宫颈癌术后尿潴留的临床效果评价 杨格娟 王冬梅 庞 瑞等 (5900)

毛细支气管炎患儿发生医院感染的病原学及危险因素分析 曹双波 张雪梅 朱振君等 (5904)

肾移植术后患者同型半胱氨酸、肾功能和血脂水平的变化及其相关性分析
..... 黄 涛 李树娟 高 扬等 (5908)

类风湿关节炎患者 RF、ANA、CCP、Ig 及炎症因子的水平测定及临床意义
..... 李 岚 蔡 枫 茅婷婷等 (5912)

超声内镜在上消化道黏膜下肿瘤诊断和鉴别诊断中的价值 冉 静 李 华 李 涛等 (5917)

心外膜脂肪厚度与冠脉病变严重程度的相关性研究 余小林 范 昊 关 娜等 (5921)

妇科千金胶囊联合桂枝茯苓丸对老年卵巢囊肿患者血清 NO、TNF-α
及性激素水平的影响 熊德玲 刘常燕 李 莹等 (5925)

ox-AAT、HMGB1、MMP-9 在胎膜早破孕妇中的表达及意义 张秀玲 杨晓静 范引侠等 (5929)

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

旬刊 2001 年 4 月创刊 第 17 卷 第 30 期 2017 年 10 月 30 日出版 Progress in Modern Biomedicine

饮食疗法对妊娠期糖尿病孕妇血脂代谢动态变化的研究	张凌燕	刘 陶	王绿娅等	(5933)	
外周血 TLR2 和 TLR9 在小儿复发性单纯疱疹中的作用	曾蓝瑶	李 燕	王艺纯等	(5940)	
重症肌无力风险基因挖掘	孙雪松	王 宁	李 杰等	(5944)	
新疆伊犁哈萨克族成人身体围度特征的分析	努尔买买提·巴哈夏尔	古丽沙依拉·队三拜	凯赛尔江·多来提等	(5950)	
亚甲基蓝光化学法灭活新鲜冰冻血浆病毒及其效果评价	赵 远	赵 伟	王象勇等	(5955)	
冠脉 PCI 治疗后血浆脂蛋白相关磷脂酶 A2 与基质金属蛋白酶 -9 水平的变化及临床意义	王宁勃	雷华斌	郭艺静等	(5959)	
高通量与低通量血液透析对糖尿病肾病透析患者氧化应激、细胞免疫功能					
和微炎症状态的影响	马志宏	胡文博	贾顺莲等	(5963)	
NDRG2 在上皮性卵巢癌中的表达及与预后的关系	张顺今	谭文华	刘 巍等	(5967)	
切开复位钢板内固定及闭合复位外固定架固定治疗不稳定型桡骨远端骨折患者的比较研究	白玉明	刘 颖	王文杰等	(5971)	
·生物医学教学·					
预防医学本科生在临床实习中存在的问题及其改进建议	胡俊锋	郑达鑫	曲书毅等	(5976)	
·水质卫生监测·					
南水北调前后北京市某区自备井水硝酸盐等卫生指标变化分析	敬燕燕	信振江	秦 娟等	(5980)	
·专论与综述·					
革兰氏阴性细菌 LuxR/I 型群体感应抑制剂研究进展	孔凡栋	周丽曼	马青云等	(5984)	
HPV 与喉癌研究新进展	贺 敬	孟宏学	姚国栋等	(5989)	
药物涂层球囊概述及其在外周动脉疾病治疗中的应用进展	鲁景元	徐文健	楼文胜等	(5993)	
《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、刁文一、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、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 17 Number 30

October 30 2017

Responsible: The public Health Bureau 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. net. cn
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
FU Shi-ying WANG Nai-qian
LIU Yu-qing HAO Xi-shan
ZENG Yi-xin ZHANG Qi-fan
Editor-in-chief:
SHEN Bao-zhong
Executive-Editor-in-chief:
WU Wen-zhong
Associate-Executive-Editor-in-chief:
MENG Qing-gang
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 2017 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·

KCa3.1 Channel was involved in the Regulation of Oxygen

and Glucose Deprivation – induced Endoplasmic

Reticulum Stress in Astrocytes

YI Meng-ni, WEI Tian-jiao, LU Qin, et al

..... (5801)

Culture and Identification of Bone Marrow-derived Mast Cells

in Mice

PENG Xia, LIANG Yu-ting, LIN Kun, et al

..... (5807)

Effect of Cinobufacini plus Cisplatin on the Proliferation

and Apoptosis of Osteosarcoma U2OS Cells

DAI Guo, TAO Chun-jie, ZHENG Di, et al

..... (5812)

Effects of Calcitriol on T Lymphocyte Subsets of

Experimental Autoimmune Thyroiditis Rats

DONG Xiao-ke, HONG Ming-zhao, HAN Yi-fan, et al

..... (5818)

The Mechanism of RNA Interference Mcl-1 Gene

Expression on the Proliferation

and Apoptosis of Lymphoma Raji Cells

REN Jing-jing, LI Guang, LIU Zhi-qin, et al

..... (5823)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 30

October 30 2017

Effects of 1840 MHz Radio Frequency Electromagnetic Radiation on the Permeability of Blood-brain Barrier in Rats GAO Peng, ZHANG Ke-ying, ZHOU Yan, et al	(5827)
Changes of Intestinal Mucosal Tight Junction Protein ZO-1 and MLCK in Different Stages of Nonalcoholic Fatty Liver Disease Rats WU Yun, LI Chun-miao, LIU Nan-nan, et al	(5832)
Effects of Metformin combined with Carboplatin on the Proliferation of Triple Negative Breast Cancer Cells ZHAO Xiao-hong, FENG Li, ZHANG Bai-hong, et al	(5837)
Effects of Orexin Receptor1 on Feeding Conditioned Reflex XING Qian-qian, HU Sha-sha, GUO Fei-fei, et al	(5840)
The Ubiquitination of Snail by FBW7 leads to Epithelial-to-Mesenchymal Transition ZHANG Yong, YE Ming-xiang, ZHANG Xin-xin, et al	(5844)
·CLINICAL RESEARCH·	
Clinical Effects of Minimally Invasive Catheterized Suction Drainage Combined with Edaravone on Cerebral Hemorrhage GUO Qing-bao, LI Li-hong, YANG Yan-long, et al	(5849)
Effect of Mesorectal Excision in Treatment of Local Recurrence after Radical Resection of Rectal Cancer on Serum Levels of MMPs, CEA and CA199 and Survival Rate DANG Chang-ning, YU Yong-duo, LIU Tie-long, et al	(5853)
Esophageal and Gastric Varices in Patients with Liver Cirrhosis: Curative Effect of Endoscopic Injection of Polidocanol and Tissue Adhesive LI Zhen-lei, ZOU Xiao-ping, WU Yu-lin, et al	(5858)
Effects of Continuous Femoral Nerve Block and Intravenous Patient-controlled Analgesia on Coagulation Function in Patients after Total Knee Arthroplasty TIAN Ming, LI Zhan-ning, CUI Hai-bin, et al	(5862)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 30

October 30 2017

Comparison of Clinical Outcomes of Posterior Lumbar Interbody Flusion and Posterolateral Fusion in the Treatment of Low Degree Spondylolisthesis

LI Yao-zhang, ZHANG Qiao-feng, DANG Pei-ye, et al (5866)

A Retrospective Analysis of the Risk Factors of Henoch-Schonlein Purpura with Alimentary Tract Hemorrhage in Children

WANG Lin, WU Xiao-yan, PENG Hua, et al (5870)

A Study on the Clinical Effect of Cefoperazone Sodium and Sulbactam Sodium Combined with Moxifloxacin on the Elderly Patients with Severe Pneumonia

HE Dan, WU Jian-song, CAO Liu-xia, et al (5874)

Clinical Analysis of Human Papillomavirus Genotyping in Patients with Skin and Venereal Diseases

SUN Hui, YIN Xing-ping, JIANG Ping-dong, et al (5879)

Effects on Metformin Combined with Tangmaikang Particles on the Serum IL-6, TNF- α , CRP and APN Levels of Patients with Type 2 Diabetes Mellitus

LIN Yuan, GAO Hai-yan, ZHOU Fang, et al (5883)

Curative Effect of Entecavir Combined with Polyethylene Glycol Interferon α -2a on the Patients with Chronic Hepatitis B

WANG Hong-qi, XIAO Lu, SUN Xi, et al (5887)

Clinical Efficacy of Inhaled Corticosteroids in the Treatment of Patients with ACOS and Its Influence on the Endothelial Cell Function

ZHOU Li, SONG Li-qiang, CHENG Xu-dong, et al (5892)

Research on the Relationship Between Fractional Exhaled Nitric Oxide Levels and Children with Bronchial Asthma and Inflammatory Factors

ZHOU Wu-bin, LI Kai-wei, LI Li, et al (5896)

Evaluation of the Effect of Multi-Channel Comprehensive Therapy of Traditional Chinese Medicine on the Cervical Cancer patients with Postoperative Urinary Retention

YANG Ge-juan, WANG Dong-mei, PANG Rui, et al (5900)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 30

October 30 2017

Analysis on Etiology and Risk Factors of Nosocomial Infections in Children with Bronchiolitis

CAO Shuang-bo, ZHANG Xue-mei, ZHU Zhen-jun, et al (5904)

Study on Changes of Homocysteine, Renal Function and Blood Lipid Levels in Renal Transplanted Recipients

HUANG Tao, LI Shu-juan, GAO Yang, et al (5908)

Determination and Clinical Significance of Levels of RF, ANA, CCP, Ig and Inflammatory Factors in Patients with Rheumatoid Arthritis

LI Lan, CAI Feng, MAO Ting-ting, et al (5912)

Value of Endoscopic Ultrasonography in the Diagnosis and Differential Diagnosis of Submucosal Tumors in Upper Gastrointestinal Tract

RAN Jing, LI Hua, LI Tao, et al (5917)

Correlative Analysis of Epicardial Adipose Tissue Thickness with the Severity of Coronary Atherosclerotic Heart Disease

YU Xiao-lin, FAN Hao, GUAN Na, et al (5921)

Effect of Fuke Qianjin Capsule Combined with Guizhi Fuling Wan on Serum NO, TNF- α and Sex Hormone Levels in Patients with Senile Ovarian Cyst

XIONG De-ling, LIU Chang-yan, LI Ying, et al (5925)

Expressions and Significances of ox-AAT, HMGB1 and MMP-9 in the Pregnant Women with Premature Rupture of Membranes

ZHANG Xiu-ling, YANG Xiao-jing, FAN Yin-xia, et al (5929)

Dietary Treatment of Pregnant Women with Gestationaldiabetes Mellitus's Dynamic Change of Lipid Metabolism

ZHANG Ling-yan, LIU Tao, WANG Lu-ya, et al (5933)

The Role of Peripheral Blood TLR2 and TLR9 in Children with Recurrent Herpes Simplex

ZENG Lan-yao, LI Yan, WANG Yi-chun, et al (5940)

Identification of the Risk Genes of Myasthenia Gravis

SUN Xue-song, WANG Ning, LI Jie, et al (5944)

The Analysis on the Circumference Characters of Adults of Kazakh Nationality from Xinjiang Yi li

Nurmamat·Bahaxar, Gulishayila·Duisanbai, Kaisaierjiang·Duolaiti, et al (5950)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 30

October 30 2017

Fresh Frozen Plasma Virus Inactivated by Methylene Blue Photochemistry and Its Effect Assessment

ZHAO Yuan, ZHAO Wei, WANG Xiang-yong, et al (5955)

Changes and Clinical Significances of Plasma Lipoprotein Associated Phospholipase A2

and Matrix Metalloproteinase -9 in the Patients with Coronary Artery PCI

WANG Ning-bo, LEI Hua-bin, GUO Yi-jing, et al (5959)

Effect of High Flux and Low Flux Hemodialysis on the Oxidative Stress, Cellular Immune Function

and Micro Inflammatory State in Hemodialysis Patients with Diabetic Nephropathy

MA Zhi-hong, HU Wen-bo, JIA Shun-lian, et al (5963)

Expression of NDRG2 in the Epithelial Ovarian Carcinoma and Its Influence on the Prognosis

ZHANG Shun-jin, TAN Wen-hua, LIU Wei, et al (5967)

Unstable Distal Radius Fractures: Comparative Study of Open Reduction

and Plate Internal Fixation and External Fixation Treatment

BAI Yu-ming, LIU Ying, WANG Wen-jie, et al (5971)

·BIOMEDICAL TEACHING·

Problems and Suggestions in the Clinical Practice of Preventive Medical Undergraduate Students

HU Jun-feng, ZHENG Da-xin, QU Shu-yi, et al (5976)

·HYGIENIC MONITORING FOR WATER QUALITY·

The Analysis of the Changes in Hygiene Indexes such as Nitrates in the Well

before and after the South-to-North Water Transfer in a Certain District of Beijing

JING Yan-yan, XIN Zhen-jiang, QIN Juan, et al (5980)

·MONOGRAPHS AND REVIEWS·

Research Advances in the LuxR/I Type Quorum Sensing Inhibitors of Gram- Negative Bacteria

KONG Fan-dong, ZHOU Li-man, MA Qing-yun, et al (5984)

HPV and New Research Progress of Laryngocarcinoma

HE Jing, MENG Hong-xue, YAO Guo-dong, et al (5989)

Progress of Drug Coated Balloon and Its Application in the Treatment of Peripheral Arterial Disease

LU Jing-yuan, XU Wen-jian, LOU Wen-sheng, et al (5993)



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

2016 年 10 月

证书编号: F250-2016-1641

万方数据

有效期至: 2017 年 12 月