



Q K 1 7 1 2 8 1 1

ISSN 1673-6273

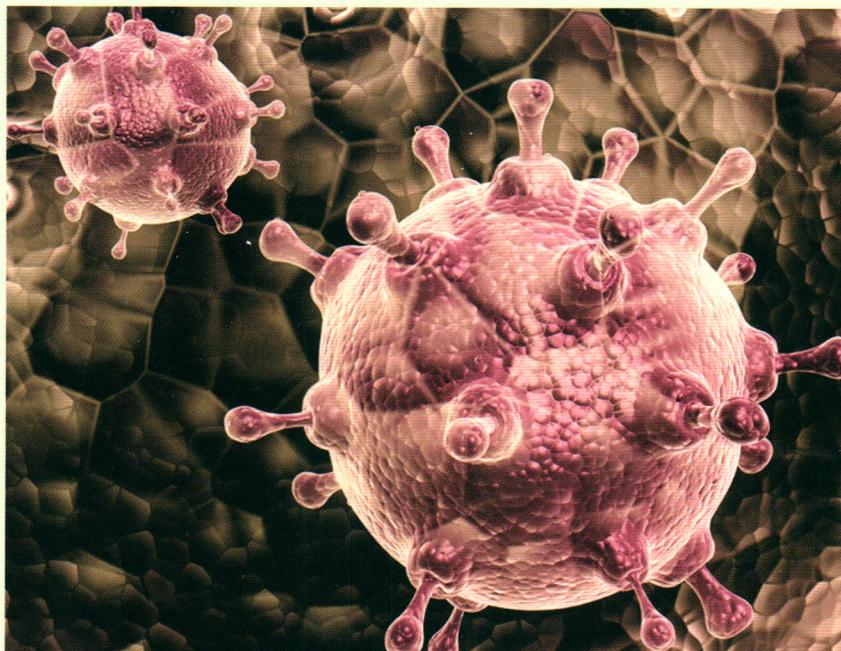
CN 23-1544/R

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21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



21>



9 771673 627177

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

旬刊 2001年4月创刊 第17卷 第21期 2017年7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 钤 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社编辑部调换

目 次

·论 著·

·基础研究·

- n-6/n-3 多不饱和脂肪酸营养失衡对小鼠精子发生的影响 丁 宁 张 欣 刘姗姗等 (4001)
用于筛选 shRNA 的新型双萤光素酶报告基因载体的构建及应用 胡志嵩 刘欣禹 杜 晓等 (4007)
转录因子 E2F1 蛋白纯化及甲基化鉴定 王 颖 邹世清 陈 波 (4012)
流式细胞仪分选人外周血 T 淋巴细胞的方法建立与评价 周 翔 贺理宇 唐程远等 (4016)
YAP 蛋白核过表达与卵巢癌腹膜及淋巴结转移的相关性分析 林 帅 李淑媛 王洪玲等 (4019)
K14、K19 在寻常型银屑病发病中的作用机制研究 吴佳纹 肖生祥 张鼎伟等 (4024)
补阳还五汤对脊髓损伤后大鼠大脑皮层运动神经元 IL-17 表达的影响 殷 坚 陈红艳 陈 安等 (4028)
随机扩增多态性技术联合荧光定量高敏检测三种疱疹病毒方法的建立 刘 雪 邢益平 严玉娟等 (4032)
云南肺癌易感性与 HLA-A, HLA-B, DRB1, DQB1 等位基因频率的相关性研究 刘 锋 印卫锋 任 畔等 (4038)
脂肪干细胞的诱导分化及其来源的研究 王三虎 满荣勇 高细强等 (4043)
Western blot 免疫印迹法检测磷酸化蛋白表达条件优化研究 韩晓杰 段婷婷 庞 雨等 (4047)
·临床研究·
新型抗菌凝胶敷料治疗深 II 度烧伤创面的疗效评价 何 放 徐达圆 罗鹏飞等 (4051)

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

旬刊 2001年4月创刊 第17卷 第21期 2017年7月30日出版 Progress in Modern Biomedicine

胆囊切除术后急性胰腺炎患者314例的发病特点分析	赵 越 吴玉婉 蔡文浩等	(4055)
鼻息肉中HIF-1 α 、VEGF和miR-200a表达及其与复发相关性研究	雍 军 李林格 李 亮等	(4059)
基于因子分析的平均住院日影响因素研究	李雪梅 张 薇 孟晓晶等	(4063)
瑞舒伐他汀强化治疗对支架置入术后患者血管再狭窄的影响	韩宝华 董 倩 魏雪茹等	(4067)
脑血疏口服液联合依达拉奉对高血压脑出血的治疗效果及对血清IL-6, IL-1 β , MMP-9的影响	郭清保 谢曼丽 杨彦龙等	(4071)
真菌性鼻鼻窦炎发病相关因素及临床特征分析	罗 苗 郑 磊 周 玉等	(4075)
贝伐单抗联合替莫唑胺对老年胶质母细胞瘤术后患者预后的影响	董必锋 陈 玲 李 亮等	(4079)
艾迪注射液联合化疗对卵巢癌患者血清HE4, CA125, CA19-9, AFP, CEA水平及T细胞亚群的影响	崔艳艳 蔡会霞 常桂花等	(4082)
甲状腺再次手术治疗的临床分析	胡照洋 张自杰 李长键等	(4086)
超声引导下微波消融术治疗良性甲状腺结节的疗效及安全性分析	韩 森 周长明 高 英等	(4089)
烧伤患者血浆IGFBP-1水平的变化及临床意义	朱兴华 张 逸 蔡玉辉等	(4093)
不同剂量乌司他丁对急性胰腺炎患者血清TNF- α , IL-1, IL-6及IL-8水平的影响	周海鸥 余 跃 施 燕等	(4096)
腹腔镜下根治性膀胱切除术治疗膀胱癌的疗效及对患者血清IL-6及IFN- γ 水平的影响	宋 哲 周治军 徐 康等	(4100)
腹部超声检查对新生儿坏死性小肠结肠炎的临床应用价值研究	刘萍萍 田晓先 黎新艳等	(4104)
不同剂量甲钴胺联合GM1治疗糖尿病周围神经病变疗效观察	高鹏举 罗国刚 李 强等	(4108)
60例颅内外脑膜瘤的临床病理分析	苗 丽 靳耀峰 周 乐等	(4112)
多索茶碱注射液对急性支气管哮喘患者血清IL-18, IL-33及TNF- α 水平的影响	李吉梅 孙成英 娄明远等	(4116)
心房颤动对不同时间窗内急性缺血性脑卒中患者静脉溶栓疗效的对比研究	车锋丽 社会山 魏建朝等	(4120)
曲美他嗪联合麝香保心丸治疗急性心肌梗死的效果研究	胡小清 谢 清 王荣峰等	(4124)
脑血疏口服液与大骨瓣减压硬膜扩大减张缝合术治疗大面积脑梗死的疗效及对血清NSE和hs-CRP水平的影响	王 涛 李晓玲 史航宇等	(4128)
凉血止痢汤与锡类散保留灌肠治疗溃疡性结肠炎的疗效对比	易 满 刘金辉 黄 凤等	(4132)
阿司匹林治疗不稳定型心绞痛的效果及对患者血清M-CSF, CK-MB及sICAM-1水平的影响	张鲁壮 宋晓洁 崔喜才等	(4135)
Rt-PA静脉溶栓治疗急性脑梗死的疗效及对血清IL-6, IL-17及VEGF水平的影响	王朝侠 张欢瑞 程格庆等	(4139)
α -硫辛酸对2型糖尿病血管病变患者血清CRP, IL-6, VEGF, VCAM-1水平的影响	胡艳云 李鸿燕 边志颖等	(4143)

现代生物医学进展

XIANDAI SHENGWUYIXUE JINZHAN

旬刊 2001年4月创刊 第17卷 第21期 2017年7月30日出版 Progress in Modern Biomedicine

- 右美托咪定联合舒芬太尼用于脊柱手术患者术后镇痛的疗效评价 李淑萍 陈宝军 胡淑娜等 (4147)
- 甘氨双唑钠联合螺旋藻对原发性晚期宫颈癌患者血清 TPS,sMICA,HIF-1 α 及 Her-2 水平的影响 江茂琼 贾钰铭 雷开键等 (4152)
- 磁性附着体用于牙列缺损修复的临床观察及对牙周微生态的影响 于学垠 张雯雯 杭晓东等 (4156)
- 曲美他嗪对慢性心力衰竭患者血管内皮功能的影响 王磊 王军 刘树文等 (4159)
- 舒血宁注射液联合布地耐德对 COPD 急性加重期患者血清 MMP-9,IL-6,IL-8,TNF- α 及肺功能的影响 宋本艳 胡强 任世友等 (4163)
- 长托宁、阿托品联合血液灌流治疗急性有机磷农药中毒伴呼吸衰竭的临床疗效 李卫民 杨继维 刘宏伟等 (4168)
- 连续性肾脏替代治疗与间歇性血液透析对急性肾损伤的临床疗效比较 叶钢 赵立涵 刘立等 (4172)
- 血栓通注射液联合利伐沙班预防下肢骨折术后下肢深静脉血栓形成疗效及对患者血液流变学的影响 李正 樊立宏 董炜等 (4175)
- 专论与综述·**
- 脊髓损伤的病理变化及治疗进展 邱健 张俊江 孟庆溪等 (4179)
- 工程化骨软骨生理微环境构建方法及研究进展 包暄文 王艳妨 秦建华等 (4184)
- CYP1B1 酶抑制剂的最新研究进展 刘名超 孟青青 崔家华等 (4190)
- 卵母细胞透明带异常及其对助孕结局影响的研究进展 段超群 滕璨 张硕屏等 (4197)
- 科学快讯·**
- Science,研究证实大脑中的一个神经元环路起着指南针作用 (I)
- 《现代生物医学进展》杂志简介及投稿指南 (V)

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、王雪、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 21

July 30 2017

Responsible: The public Health Bureau of
Heilongjiang province

Sponsor: Heilongjiang Province Forestry General Hospital
The Fouth 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 Weng-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•

Dietary Imbalance of n-6/n-3 PUFAs Affects Spermatogenesis

in C57/B6 Mice

DING Ning, ZHANG Xin, LIU Shan-shan, et al

(4001)

Construction and Application of a Novel Dual-Luciferase

Reporter Gene Vector for shRNA Screening

HU Zhi-song, LIU Xin-yu, DU Xiao, et al

(4007)

Purification and Methylation Identification of Transcription

Factor E2F1 Protein

WANG Ying, ZOU Shi-qing, CHEN Bo

(4012)

Establishment and Evaluation of Flow Cytometry Method for

Isolation of T Lymphocytes from Peripheral Blood

Mononuclear Cells

ZHOU Xiang, HE Li-yu, TANG Cheng-yuan, et al

(4016)

Correlation of YAP Nuclear Overexpression with the Lymph

Node and Peritoneal Metastasis of Ovarian Cancer

LIN Shuai, LI Shu-yuan, WANG Hong-ling, et al

(4019)

Study on the Mechanism of K14 and K19 in the Pathogenesis

of Psoriasis Vulgaris

WU Jia-wen, XIAO Sheng-xiang, ZHANG Ding-wei, et al

(4024)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 21

July 30 2017

Effects of Buyang Huanwu Decoction on the Expression of IL-17 in the Cerebral Cortex

Neurons of Rats after Spinal Cord Injury

- YIN Jian, CHEN Hong-yan, CHEN An, et al (4028)

Random Amplified Polymorphic DNA Combined with Real-time PCR for Detecting Herpes Virus

- LIU Xue, XING Yi-ping, YAN Yu-juan, et al (4032)

A Correlative Study on Lung Cancer with the Frequency of HLA-A, HLA-B, DRB1, DQB1 Alleles in Yunnan Province

- LIU Zheng, YIN Wei-feng, REN Ye, et al (4038)

Research on the Induced Differentiation of Adipose Derived Stem Cells and Its Origin

- WANG San-hu, MAN Rong-yong, GAO Xi-qiang, et al (4043)

Optimization Research on the Western Blot Experimental Conditions for Detecting

Phosphorylated Protein

- HAN Xiao-jie, DUAN Ting-ting, PANG Yu, et al (4047)

•CLINICAL RESEARCH•

Evaluation of the Therapeutic Effect of Prontosan Wound Gel Combined with Sulfadiazine Silver on the Deep Second Degree Burn Wounds

- HE Fang, XU Da-yuan, LUO Peng-fei, et al (4051)

Characteristic Analysis of 314 Cases of Patients with Acute Pancreatitis after Cholecystectomy

- ZHAO Yue, WU Yu-wan, CAI Wen-hao, et al (4055)

Expressions of HIF-1 α , VEGF and miR-200a and Its Correlation with Recurrence of Nasal Polyps

- YONG Jun, LI Lin-ge, LI Liang, et al (4059)

Research on Influence Factors of Average Length of Stay Based on Factor Analysis

- LI Xue-mei, ZHANG Wei, MENG Xiao-jing, et al (4063)

The Influence of Rosuvastatin Intensive Therapy on the ISR of Patients with Placement of Stents in Coronary Artery

- HAN Bao-hua, DONG Qian, WEI Xue-ru, et al (4067)

Effects of Cerebral Hemorrhagic Oral Liquid Combined with Edaravone on Hypertensive Cerebral Hemorrhage and Serum IL-6, IL-1 β and MMP-9 Levels

- GUO Qing-bao, XIE Man-li, YANG Yan-long, et al (4071)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 21

July 30 2017

Study on Correlated Factors and Clinical Features of Fungal Rhinosinusitis

LUO Miao, ZHENG Lei, ZHOU Yu, et al (4075)

Effect of Bevacizumab Combined with Temozolomide on the Prognosis of Elderly Postoperative

Patients with Glioblastoma

DONG Bi-feng, CHEN Ling, LI Liang, et al (4079)

Effect of Aidi Injection Combined with Chemotherapy on Serum Levels of HE4, CA125, CA19-9,

AFP and CEA and T Cell Subsets of Patients with Ovarian Cancer

CUI Yan-yan, QI Hui-xia, CHANG Gui-hua, et al (4082)

Clinical Analysis of Thyroid Reoperation

HU Zhao-yang, ZHANG Zi-jie, LI Chang-jian, et al (4086)

Analysis of the Efficacy and Safety of Ultrasound-guided Percutaneous Microwave Ablation

in the Treatment of Benign Thyroid Nodules

HAN Miao, ZHOU Chang-ming, GAO Ying, et al (4089)

Expression Changes of IGFBP-1 Level in Burn Patient and Its Clinical Significance

ZHU Xing-hua, ZHANG Yi, CAI Yu-hui, et al (4093)

Effects of Different Doses of Ulinastatin on Serum Levels of TNF- α , IL-1, IL-6 and IL-8

in Patients with Acute Pancreatitis

ZHOU Hai-ou, YU Yue, SHI Yan, et al (4096)

Curative Effect of Laparoscopic Radical Cystectomy in Treatment of Bladder Cancer and Serum

Levels of IL-6 and IFN- γ

SONG Zhe, ZHOU Zhi-jun, XU Kang, et al (4100)

Clinical Value of Abdominal Ultrasonography in the Diagnosis of Neonatal Necrotizing Enterocolitis

LIU Ping-ping, TIAN Xiao-xian, LI Xin-yan, et al (4104)

Clinical Effect of Different Dose of Methyl Cobalamin Combined GM1 in Treatment of Diabetic

Peripheral Neuropathy Patients

GAO Peng-ju, LUO Guo-gang, LI Qiang, et al (4108)

Clinicopathological Analysis of 60 Cases of Meningiomas of Intracranial and Extracranial

MIAO Li, JIN Yao-feng, ZHOU Le, et al (4112)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 21

July 30 2017

Effect of Doxofylline Injection on Serum Levels of IL-18, IL-33 and TNF- α of Patients

with Acute Bronchial Asthma

LI Ji-mei, SUN Cheng-ying, LOU Ming-yuan, et al (4116)

A Comparative Study on the Efficacy of Intravenous Thrombolysis in Acute Ischemic Stroke

Patients with Atrial Fibrillation in Different Time Windows

CHE Feng-li, DU Hui-shan, WEI Jian-chao, et al (4120)

Clinical Effects of Trimetazidine Combined with Heart-protecting Musk Pill on the Acute

Myocardial Infarction

HU Xiao-qing, XIE Qing, WANG Rong-feng, et al (4124)

Effect of Naoxueshu Oral Liquid Combined with Large Bone Flap Decompression on Treatment

of Large Area Cerebral Infarction and NSE and hs-CRP in Patients

WANG Tao, LI Xiao-ling, SHI Hang-yu, et al (4128)

Comparison of Liangxue Zhili Soup and Tin Powder with Retention Enema in the Treatment

of Ulcerative Colitis

YI Man, LIU Jin-hui, HUANG Feng, et al (4132)

Analysis of the Therapeutic Effect of Aspirin on UAP Patients

and Changes of Serum Levels of M-CSF, CK-MB and sICAM-1

ZHANG Lu-zhuang, SONG Xiao-jie, CUI Xi-cai, et al (4135)

Efficacy of Rt-PA Intravenous Thrombolysis in Treatment of Acute Cerebral Infarction and Its Effects

on Serum IL-6, IL-17 and VEGF Levels

WANG Zhao-xia, ZHANG Huan-rui, CHENG Ge-qing, et al (4139)

Effect of α -lipoic Acid on Serum CRP, IL-6, VEGF and VCAM-1 Levels of Patients

with Type 2 Diabetic Vascular Disease

HU Yan-yun, LI Hong-yan, BIAN Zhi-ying, et al (4143)

The Curative Effect of Dexmedetomidine Combination with Sufentanil on Postoperative Analgesia

in Patients with Spinal Surgery

LI Shu-ping, CHEN Bao-jun, HU Shu-na, et al (4147)

Effects of Glycididazole Sodium and Spirulina on Serum Levels of TPS, sMICA, HIF-1 α and Her-2

of Patients with Primary Advanced Cervical Carcinoma

JIANG Mao-qiong, JIA Yu-ming, LEI Kai-jian, et al (4152)

Progress in Modern Biomedicine

Established in April 2001

Volume 17 Number 21

July 30 2017

Curative Efficacy of Magnetic Attachment in Treatment of Repair of Dentition Defect and Its

Effects on Periodontal Micro Ecology

- YU Xue-yin, ZHANG Wen-wen, HANG Xiao-dong, et al (4156)

Effects of Trimetazidine on the Vascular Endothelial Function of Patients with Chronic Heart Failure

- WANG Lei, WANG Jun, LIU Shu-wen, et al (4159)

Influence of Shuxuening Injection Combined with Budesonide on Serum Levels of MMP-9, IL-6,

IL-8 and TNF- α and Lung Function of COPD Patients with Acute Aggravating Period

- SONG Ben-yan, HU Qiang, REN Shi-you, et al (4163)

Clinical Effect of Penehyclidine Hydrochloride, Atropine Plus Hemoperfusion On Patients with

Acute Organophosphorus Pesticide Poisoning Combined with Respiratory Failure

- LI Wei-min, YANG Ji-wei, LIU Hong-wei, et al (4168)

Comparison of the Clinical Effects of Continuous Renal Replacement Therapy and Intermittent

Hemodialysis on Acute Renal Injury

- YE Gang, ZHAO Li-han, LIU Li, et al (4172)

Clinical Efficacy of Xuesuantong Injection Combined with Rivaroxaban in the Prevention of Deep

Venous Thrombosis after Operation of Lower Limb Fracture and Its Influence on Hemorheology

- LI Zheng, FAN Li-hong, DONG Wei, et al (4175)

·MONOGRAPHS AND REVIEWS·

Pathology and Treatment of Spinal Cord Injury

- QI Jian, ZHANG Jun-jiang, MENG Qing-xi, et al (4179)

The New Methods and Research Progress in Application of Osteochondral Micro-physiological System

- BAO Xuan-wen, WANG Yan-fang, QIN Jian-hua, et al (4184)

Recent Research Progress on the CYP1B1 Inhibitors

- LIU Ming-chao, MENG Qing-qing, CUI Jia-hua, et al (4190)

The Study Progress on the Relationship between Zona Pellucida and the Oocyte Fertilization,

Embryo Development and the Pregnancy Outcome

- DUAN Chao-qun, TENG Can, ZHANG Shuo-ping, et al (4197)



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。



2016年10月

证书编号：F250-2016-1641

有效期至：2017年12月