



ISSN 1004-8685

CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2015年12月 第25卷 第23期

Dec.2015 Vol.25 No.23

国家卫生和计划生育委员会主管

中华预防医学会主办

CHINESE

JOURNAL OF HEALTH

LABORATORY TECHNOLOGY

中文核心期刊

中国科技论文统计源期刊(中国科技核心期刊)

RCCSE 中国核心学术期刊(A-)

中国生物医学源期刊

美国化学文摘(CA)源期刊

中国学术期刊综合评价数据库源期刊

CJ
HLT

23

2015

ISSN 1004-8685



9 771004 868156

中华预防医学会系列杂志

SERIAL JOURNAL OF CHINESE PREVENTIVE MEDICINE ASSOCIATION

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

半月刊 1991 年创刊 第 25 卷 第 23 期 2015 年 12 月 10 日出版

主管

中华人民共和国国家卫生和计划生育委员会
100044, 北京市西城区西直门外南路 1 号

主办

中华预防医学会
100021, 北京市朝阳区劲松东口华泰饭店

社长总编

张绍武

副社长

张 甜 姜友珍

副总编

郁庆福 李桂英 张克荣

编辑部主任

杨 锋

编辑

中国卫生检验杂志编委会

出版

中国卫生检验杂志社
450003 郑州市经一路 12 号 2288 信箱

编辑部电话

0371 - 65978342
0371 - 65968289 (传真)

广告部电话

0371 - 65998851
15538110112

出版日期

2015 年 12 月 10 日

发行

国内发行: 北京市邮政局
邮发代号: 80 - 152
国外发行: 中国国际图书贸易总公司
(北京 399 信箱)
国外发行代号: M5752

中国标准连续出版物号

ISSN 1004 - 8685
CN 41 - 1192/R

广告经营许可证号

4100004000124

2015 年版权归中国卫生检验杂志社所有

定价

每期 21.50 元

目次

论 著

电穿孔法介导转染老年人成纤维细胞参数的优化
..... 王雅珍, 杨舟鑫, 徐伟红, 等 (3985)

血压正常人群中血清游离脂肪酸与脉压水平的相关研究
..... 刘娜, 张曼 (3988)

不同肝病患者乙型肝炎病毒 BCP/PC 区变异研究
..... 丁晓琳, 张伦军, 朱安友, 等 (3991)

食品包装材料中邻苯二甲酸酯迁移的影响因素
..... 张晗, 张梅如, 吴岷, 等 (3994)

搅拌棒吸附萃取 - 热脱附 - 气相色谱 - 质谱联用法测定水中 54 种挥发
性有机物 汪怡, 冯晓青, 王芹, 等 (3998)

化学测定方法

石墨炉原子吸收光谱法测定河水中铅的条件选择研究
..... 陈雅丽, 王春丹, 姚佳希, 等 (4004)

热解吸 - 气相色谱法测定工作场所空气中芳香烃类化合物后的留样复测
..... 张学军 (4007)

固相萃取 - 石墨炉原子吸收光谱法测定高盐食品中的铅
..... 王春来 (4010)

静态顶空结合气相色谱 - 质谱联用法测定 3 种不同性状化妆品中的甲醛
..... 林建, 薛晓康, 丁卯 (4013)

固相萃取 - 超高效液相色谱 - 串联质谱法同时检测消毒产品中的 4 种
抗生素 王军淋, 胡争艳, 蔡增轩, 等 (4015)

本刊编委 (排名按笔画排列)

丁家华 仓公敖 方赤光 王哲
王大宁 王志玉 王京宇 王树东
冯晓燕 叶能权 毕永毅 刘秀梅
刘殿武 吕昌银 祁建城 任一平
孙长颢 孙成均 许春向 陈守建
何建国 何浙生 何晓青 李蓉
李晓虹 宋宏彬 吴清平 杨元
张曦 张贺秋 邹学贤 姜庆五
赵卓 赵雁林 高永清 贾珍珍
栗文元 凌文华 栾燕 徐东群
曹佳 曹润武 晁福寰 崔巍
常凤启 黄国伟 康辉 康维钧
韩玉霞 曾现伟 窦志勇 溥萍
阚飙 廖百森 裴少军 裴晓方
谭晓东 熊英 潘慧 冀元棠

Editorial Board Member

DING Jia - hua, CANG Gong - ao, FANG Chi -
guang, WANG Zhe, WANG Da - ning, WANG
Zhi - yu, WANG Jing - yu, WANG Xu - dong,
FENG Xiao - yan, YE Neng - quan, BI Yong - yi,
LIU Xiu - mei, LIU Dian - wu, LV Chang - yin,
QI Jian - cheng, REN Yi - ping, SUN Chang -
hao, SUN Cheng - jun, XU Chun - xiang, CHEN
Shou - jian, HE Jian - guo, HE Zhe - sheng, HE
Xiao - qing, LI Rong, LI Xiao - hong, SONG
Hong - bin, WU Qing - ping, YANG Yuan,
ZHANG Xi, ZHANG He - qiu, ZOU Xue - xian,
JIANG Qing - wu, ZHAO Zhuo, ZHAO Yan - lin,
GAO Yong - qing, JIA Zhen - zhen, LI Wen -
yuan, LING Wen - hua, LUAN Yan, XU Dong -
qun, CAO Jia, CAO Run - wu, CHAO Fu -
huan, CUI Wei, CHANG Feng - qi, HUANG
Guo - wei, KANG Hui, KANG Wei - jun, HAN
Yu - xia, ZENG Xian - wei, DOU Zhi - yong, PU
Ping, KAN Biao, LIAO Bai - sen, PEI Shao -
jun, PEI Xiao - fang, TAN Xiao - dong, XIONG
Ying, PAN Hui, JI Yuan - tang

网 址

www. zgwsjy. cn

投稿电子信箱

wsjyzz@126. com

印 刷

鑫宏源印刷包装有限责任公司

来稿咨询电话

010 - 84030401

实验研究

脐带血 CD34⁺ 细胞使用 ProCOUNT 方法与双平台 ISHAGE 方法检测的比
较分析 徐罡,戴兵,陈舒,等 (4019)

食品与药品检验

氢化物发生 - 原子荧光光谱法测定食品样品中的锑(Ⅲ)和锑(V)
..... 谭湘武,马金辉,萧福元,等 (4021)

阿胶类保健食品中 4 种有害元素的检测与分析
..... 迟少云,王超,裴琳 (4024)

超声辅助离子液体分散液液微萃取 - 高效液相色谱法测定蜂蜜中的咖啡因
..... 于玲,董丽丽 (4027)

在线萃取流动注射分析法测定消毒食(饮)具中烷基苯磺酸钠残留量 ...
..... 陈少芳,杨香桃,罗轩 (4031)

碰撞/反应池 - 电感耦合等离子体质谱法同时测定肉类食品中的 5 种有
害元素 李敏,王紫纹,刘佳 (4034)

固相萃取 - 离子色谱法检测面及面制品中溴酸盐方法的建立
..... 李海东,单美娜,杨剑业,等 (4038)

微生物检测方法

实时荧光核酸恒温扩增技术在淋球菌检测中的应用评价
..... 钟春燕,章小花,裘新民,等 (4041)

吉林省 2011 年 - 2014 年急性上呼吸道感染病原学检测结果分析
..... 李静,柳鸿敏,许爽,等 (4043)

副溶血性弧菌所致食物中毒实时荧光定量 PCR 筛查方法的建立及应用
..... 骆秋云,肖锦晖,谷素英,等 (4046)

基因芯片法和培养法在细菌性痢疾中的应用对比
..... 许俊钢,靳晓利,张国强 (4049)

八珍颗粒《中国药典》2015 年版微生物限度检查法的建立及检验结果分析
..... 陈志禹,夏佳,席时东 (4051)

Xpert MTB/RIF 技术对结核分枝杆菌检测和耐多药结核快速筛查的研究
..... 杨慧娟,马利,陈连勇,等 (4056)

临床检验

高血压病患者与血清游离脂肪酸水平的相关性研究	王胜奎,周俊,丁慧	(4060)
血清胃蛋白酶原及幽门螺杆菌抗体在胃癌早期诊断中的意义	褚美芬,叶爱青,吴怡春	(4063)
脂肪肝患者血清生化指标及其相关性分析	张秀芝,刘晓丽,李宁宁,等	(4066)
血清NSE、CEP350、Cyfra21-1和CEA在肺癌诊断中的临床研究	俞北伟,楼立新,章丽琴,等	(4068)
手足口病早期患儿IL-2、IL-4、IL-5、IL-8检测的临床价值	韩雪,程江,马雅静,等	(4071)
细胞角蛋白19 mRNA和肺特异性X蛋白 mRNA在非小细胞肺癌患者外周血微转移检测中的意义	喻长法,任应鹏,叶丽君,等	(4074)
2种电泳方法对血清M蛋白的检测性能比较	刘铁林,孟凡超,王宁	(4077)
不同尿液红细胞形态参数判定标准的临床应用研究	汪晓巍,吴玥,郭野,等	(4079)
儿童9种呼吸道病原体的IgM抗体检测结果分析	邱胜丰,葛高霞,张宪伟,等	(4082)
一种幽门螺杆菌抗原检测试剂盒的临床应用评估	范芳华,程璐,周筱琼,等	(4085)
血清PSA、ALP与OC联合检测在前列腺癌骨转移中的临床意义	袁泉良,屈中玉,任东方	(4087)
胱抑素C在原发性高血压早期肾损害诊断中的临床意义	高向阳,杨春显,周紫燕,等	(4090)
影响神经元特异性烯醇化酶检测的因素分析验证	彭岚,陈敏,陈洁,等	(4092)
卵巢癌与肿瘤标志物及凝血功能变化的相关性分析	金元,徐笑红,张敏	(4095)

分子诊断与基因检测

温州地区α/β地中海贫血家系的基因突变分析及产前诊断	吴祥兵,徐晨阳,李焕铮,等	(4098)
产ESBLs与AmpC酶肠杆菌科细菌表型检测及基因型分析	黄靖宇,黄华,方威,等	(4101)
山东省2014年矿泉水中微生物检测及铜绿假单胞菌分离株脉冲场凝胶电泳分型	王爽,侯配斌,刘静,等	(4104)

监测分析

2011年-2014年北京市通州区游泳池水监测分析	王艳春,杨玉竹,郑旭	(4106)
黔东南州2011年-2014年麻疹、风疹疑似病例IgM抗体检测结果分析	单竹周,潘雪雪,王芳,等	(4109)
职业接触氟及其无机化合物生物限值的修订	顾缨缨,代浩,梅勇,等	(4112)
2008年-2015年广西乐业县居民食用碘盐监测结果分析	杨承会	(4115)
基层医院普通病房3种空气净化方式的环境细菌学监测分析	娄秀芳,李宏杰,黄荣,等	(4117)
北京市西城区2012年-2014年手足口病病原学监测情况分析	张晶波,王永全,李达,等	(4120)
2012年-2014年务川自治县人间布鲁杆菌病监测分析	杨兴万,王诚,秦政	(4123)

百日咳和白喉胎传抗体监测分析	柳艳萍,齐秀英	(4126)
成都市部分食品中铝含量及膳食暴露评估	王瑶,李晓辉,刘艳,等	(4128)

调查报告

流感病毒分型及亚型实时荧光定量 PCR 检测能力验证结果分析	刘丽娟,马雪征,甄维,等	(4131)
河南省市售食用植物油检测结果分析	张利锋,张榕杰,张文豪,等	(4133)
珠海某口岸进口糕点饼干类食品质量和安全状况分析	王钰,余以刚	(4136)
天津市售自制饮料中人工合成色素使用情况调查	王辰,李建平	(4139)
山东省蓬莱市 2011 年 - 2014 年暗娼人群艾滋病行为干预效果评价	张利泉,宁福江	(4141)
北京市西城区 2012 年 - 2013 年食源性单核细胞增生李斯特菌同源性 & 耐药状况调查	霍哲,徐俊,高波	(4143)
2014 年开平市电镀企业工作场所空气中有害物质检测结果与分析	邓秀燕,吴灿斌,林崇昌,等	(4147)

细菌耐药性研究

杀白细胞素基因阳性金黄色葡萄球菌的流行及耐药性	杨颖,张传领,楚旭,等	(4150)
绍兴市 HIV - 1 未治疗人群潜在耐药性研究	傅利军,何婷婷,赵丹燕,等	(4153)
产 NDM - 1 耐碳青霉烯酶肠杆菌科细菌筛查研究	侯辰蕊,戎建荣,栗子洋,等	(4157)
质粒介导鼠伤寒沙门菌耐喹诺酮类药物的研究	张巍巍,冯宝立,郑兰紫,等	(4160)

教学与实验室管理

对 2014 年版《空气理化检验》教材中若干问题的商榷——以空气中颗粒物的测定一章为例	邵军丽,黄明元,孙铭薇,等	(4162)
浅谈实验室管理体系文件编写人员的素质要求	韩刚	(4165)
微粒和粉末状氧化铝柱层析法分离胡萝卜素的实验效果对比分析	靳彩虹	(4168)
流式细胞仪测定 HIV 感染者 CD4 ⁺ T 淋巴细胞绝对计数的测量不确定度评定初探	李育芬,顾涛,李艳君	(4170)

经验交流

大理市市售乳及乳饮料抗生素残留试剂盒快速检测	袁芝琼,申元英	(4173)
------------------------------	---------	--------

短篇报道

胃镜检查发现钩虫病 1 例	高羽高,付伟楠,刘晓,等	(4175)
---------------------	--------------	--------

CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 25 Number 23 December 10, 2015

Managed by

National Health and Family Planning Commission
of the People's Republic of China
No. 1, Xizhimen Wainan Road, Xicheng District, Beijing, 100044

Sponsored by

Chinese Preventive Medicine Association
Hua Thai Hotel, East Exit of Jinsong Road, Chaoyang District, Bei-
jing, 100021

Editor in Chief

ZHANG Shao - wu

Deputy Chairman

ZHANG Tian, JIANG You - zhen

Associate Editor in Chief

YU Qing - fu, LI Gui - ying, ZHANG Ke - rong

Director of Editorial Department

YANG Feng

Edited by

Editorial Board of Chinese Journal of Health Labo-
ratory Technology

Published by

Editorial Department of Chinese Journal of Health
Laboratory Technology
Mailbox 2288, No. 12, Jingyi Road, Zhengzhou, 450003

Editorial office telephone

0371 - 65978342
0371 - 65968289 (Fax)

Advertising department telephone

0371 - 65998851
15538110112

Publication Date

December 10, 2015

Domestic Distributor

Beijing Post Bureau
Code: 80 - 152

Overseas Distributor

China International Book Trading Corporation
(P. O. Box 399, Beijing, China)
Code: M5752

Website

www. zgwsjy. cn

E - mail

wsjyzz@126. com

Standard Series Number

ISSN 1004 - 8685
CN 41 - 1192/R

Advertising Management License

4100004000124

Copyright 2015 by Editorial Department of
Chinese Journal of Health Laboratory Technology

Price

RMB ¥21.50

CONTENTS IN BRIEF

Original Articles

Investigation on optimal parameters of electroporation - mediated transfection
in elderly fibroblasts

..... WANG Ya - zhen, YANG Zhou - xin, XU Wei - hong, *et al* (3985)

Study on the relationship between serum free fatty acids and pulse pressure a-
mong normotensives LIU Na, ZHANG Man (3988)

Studies of the mutations in the BCP/PC region of hepatitis B virus in patients
with different hepatitis

..... DING Xiao - lin, ZHANG Lun - jun, ZHU An - you, *et al* (3991)

Influence factors of phthalates migration from food packaging materials

..... ZHANG Han, ZHANG Mei - ru, WU Min, *et al* (3994)

Determination of 54 kinds of volatile organic compounds in water samples by
stir bar sorptive extraction - thermodesorption - gas chromatography - mass
spectrometry WANG Yi, FENG Xiao - qing, WANG Qin, *et al* (3998)

Chemical Detection Method

Research on the selecting condition in the determination of lead in river water
by graphite furnace atomic absorption spectrometry

..... CHEN Ya - li, WANG Chun - dan, YAO Jia - xi, *et al* (4004)

Aromatic hydrocarbon compounds retention and retest of air samples in work-
place by thermal desorption - gas chromatography

..... ZHANG Xue - jun (4007)

Determination of lead in high salt food by solid phase extraction and graphite
furnace atomic absorption spectrometry WANG Chun - lai (4010)

Determination of formaldehyde in 3 types of cosmetic products by headspace
gas chromatography - mass spectrometry

..... LIN Jian, XUE Xiao - kang, DING Mao (4013)

Simultaneous determination of 4 antibiotics in disinfection products by ultra -
performance liquid chromatography tandem mass spectrum after solid phase
extraction

..... WANG Jun - lin, HU Zheng - yan, CAI Zeng - xuan, *et al* (4015)

Experimental Study

Comparison and analysis of ProCOUNT and double – platform ISHAGE assays for detecting CD34⁺ cells in cord blood
..... XU Gang, DAI Bing, CHEN Shu, *et al* (4019)

Food and Drug Inspection

Determination of stibium(III) and stibium(V) in food samples by hydride generation – atomic fluorescence spectrometry ...
..... TAN Xiang – wu, MA Jin – hui, XIAO Fu – yuan, *et al* (4021)

Determination and analysis of 4 harmful elements in gelatin type of health food
..... CHI Shao – yun, WANG Chao, PEI Lin (4024)

Determination of caffeine in honey by ultrasound – assisted ionic liquid based dispersive liquid – liquid microextraction coupled
with high performance liquid chromatography YU Ling, DONG Li – li (4027)

Determination of sodium alkybenzene sulfonate residues in disinfected tableware by online extraction flow injection analysis
..... CHEN Shao – fang, YANG Xiang – tao, LUO Xuan (4031)

Simultaneous determination of 5 harmful elements in meat food by collision/reaction pool – inductively coupled plasma mass
spectrometry LI Min, WANG Zi – wen, LIU Jia (4034)

Establishment of the determination method of the bromate in flour and flour products by solid phase extraction – ion chroma-
tography LI Hai – dong, SHAN Mei – na, YANG Jian – ye, *et al* (4038)

Microbe Detection Method

Evaluation on the application of real – time fluorescent isothermal nucleic acid amplification technology in the detection of *Gon-
ococcus* ZHONG Chun – yan, ZHANG Xiao – hua, QIU Xin – min, *et al* (4041)

Analysis of viral etiology with upper respiratory tract infection in Jilin from 2011 to 2014
..... LI Jing, LIU Hong – min, XU Shuang, *et al* (4043)

Establishment and application of real – time fluorescent quantitative PCR screening method in food poisoning caused by *Vibrio
parahaemolyticus* LUO Qiu – yun, XIAO Jin – hui, GU Su – ying, *et al* (4046)

Application comparison of gene chip and culture in bacterial dysentery and the its comparative study
..... XU Jun – gang, JIN Xiao – li, ZHANG Guo – qiang (4049)

Establishment of microbial limit test for Bazhen granules *Chinese Pharmacopoeia* 2015 and analysis of test results
..... CHEN Zhi – yu, XIA Jia, XI Shi – dong (4051)

Study on detection of *Mycobacterium tuberculosis* and rapid screening of multi drug – resistance with Xpert MTB/RIF technology
..... YANG Hui – juan, MA Li, CHEN Lian – yong, *et al* (4056)

Clinical Laboratory Test

Research on the correlation of hypertensive patients with serum free fatty acid levels
..... WANG Sheng – kui, ZHOU Jun, DING Hui (4060)

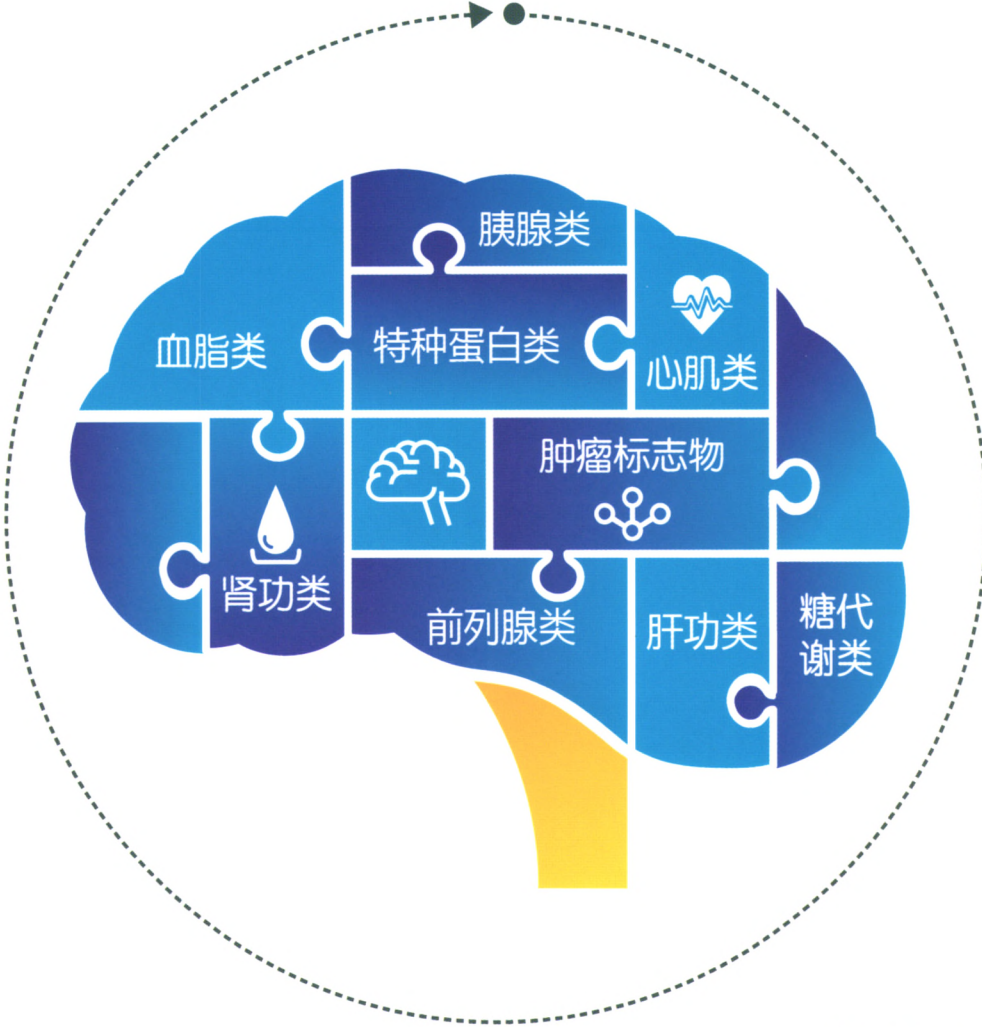
Clinical value of pepsinogen levels and *Helicobacter pylori* antibody detection in the early diagnosis of gastric cancer
..... CHU Mei – fen, YE Ai – qing , WU Yi – chun (4063)

Analysis of serum biochemical parameters and their correlations in fatty liver patients
..... ZHANG Xiu – zhi, LIU Xiao – li, LI Ning – ning, *et al* (4066)

Clinical studies of serum NSE, CEP350, Cyfra21-1 and CEA in the diagnosis of lung cancer	
.....	YU Bei-wei, LOU Li-xin, ZHANG Li-qin, <i>et al</i> (4068)
Clinical significance of the detection of IL-2, IL-4, IL-5, IL-8 in children with early hand-foot-mouth disease ...	
.....	HAN Xue, CHENG Jiang, MA Ya-jing, <i>et al</i> (4071)
Significance of detecting cytokeratin 19 mRNA and lung specificity protein X mRNA in peripheral blood micrometastasis of patients with non-small cell lung cancer	
.....	YU Chang-fa, REN Ying-peng, YE Li-jun, <i>et al</i> (4074)
Comparison of efficiency of two different electrophoresis methods for detecting serum M protein	
.....	LIU Tie-lin, MENG Fan-chao, WANG Ning (4077)
Clinical performance evaluation of criterion on different urine red blood cell morphological parameters	
.....	WANG Xiao-wei, WU Yue, GUO Ye, <i>et al</i> (4079)
A clinical analysis of 9 pathogenic IgM antibodies in children with respiratory tract infection	
.....	QIU Sheng-feng, GE Gao-xia, ZHANG Xian-wei, <i>et al</i> (4082)
Clinical application evaluation of a <i>Helicobacter pylori</i> antigen test kit	
.....	FAN Fang-hua, CHENG Lu, ZHOU Xiao-qiong, <i>et al</i> (4085)
The clinical value of combination of PSA, ALP and OC in the bone metastasis of prostate cancer	
.....	YUAN Quan-liang, QU Zhong-yu, REN Dong-fang (4087)
The clinical significance of serum cystatin C in the diagnosis of patients with essential hypertensive early renal damage	
.....	GAO Xiang-yang, YANG Chun-xian, ZHOU Zi-yan, <i>et al</i> (4090)
Analysis and verifying of factors influencing neuron specific enolase detection	
.....	PENG Lan, CHEN Min, CHEN Jie, <i>et al</i> (4092)
Research on the association of ovarian cancer with tumor marker and blood coagulation	
.....	JIN Yuan, XU Xiao-hong, ZHANG Min (4095)
Molecular Diagnosis and Gene Detection	
Mutation analysis and prenatal diagnosis of α/β thalassemia families in Wenzhou area	
.....	WU Xiang-bing, XU Chen-yang, LI Huan-zheng, <i>et al</i> (4098)
Phenotypic detection and genotyping analysis of <i>Enterobacteriaceae</i> bacteria producing ESBLs and AmpC β-lactamase	
.....	HUANG Jing-yu, HUANG Hua, FANG Wei, <i>et al</i> (4101)
Microorganism detection in mineral water and pulsed-field gel electrophoresis typing of <i>Pseudomonas aeruginosa</i> isolates in 2014 in Shandong	
.....	WANG Shuang, HOU Pei-bin, LIU Jing, <i>et al</i> (4104)
Monitoring and Analysis	
Quality monitoring and analysis of swimming pool water in Tongzhou district of Beijing during 2011-2014	
.....	WANG Yan-chun, YANG Yu-zhu, ZHENG Xu (4106)
Analysis of the detection results of suspected cases with measles, rubella IgM antibody in Qindongnan prefecture during 2011-2014	
.....	SHAN Zhu-zhou, PAN Xue-xue, WANG Fang, <i>et al</i> (4109)
Studies on occupational exposure to fluorine and the revision of the biological limit value of fluorides	
.....	GU Ying-ying, DAI Hao, MEI Yong, <i>et al</i> (4112)

Analysis of surveillance results of iodine content in iodized table salt consumed by the residents in Leye county of Guangxi during 2008 – 2015	YANG Cheng – hui (4115)
Bacteriological monitoring and analysis of air environment with 3 air purification methods in general wards of grass – roots hospitals	LOU Xiu – fang, LI Hong – jie, HUANG Rong, <i>et al</i> (4117)
Analysis of etiological surveillance status of hand – foot – mounth disease in Xicheng district of Beijing during 2012 – 2014	ZHANG Jing – bo, WANG Yong – quan, LI Da, <i>et al</i> (4120)
Monitoring and analysis of brucellosis in Wuchuan autonomous county during 2012 – 2014	YANG Xing – wan, WANG Cheng, QIN Zheng (4123)
Monitoring and analysis of fetal transmission antibodies for pertussis and diphtheria	LIU Yan – ping, QI Xiu – ying (4126)
Assessment on aluminum content and dietary exposure in some certain foods in Chengdu	WANG Yao, LI Xiao – hui, LIU Yan, <i>et al</i> (4128)
Investigation Report	
Analysis of verification results of real – time fluorecence quantitative PCR on influenza virus typing and sub – typing	LIU Li – juan, MA Xue – zheng, ZHEN Wei, <i>et al</i> (4131)
Analysis of the testing results of edible vegetable oil sold in Henan	ZHANG Li – feng, ZHANG Rong – jie, ZHANG Wen – hao, <i>et al</i> (4133)
Analysis of food quality and safety of the imported pastry and biscuits from a Zhuhai seaport	WANG Yu, YU Yi – gang (4136)
Investigation on synthetic pigments in self – made beverage in Tianjin	WANG Chen, LI Jian – ping (4139)
Evaluation of intervention efficiency of AIDS on female sex workers in Penglai of Shandong during 2011 – 2014	ZHANG Li – quan, NING Fu – jiang (4141)
Investigation on the homology and antibiotic status of food – borne <i>Listeria monocytogens</i> in Xicheng district of Beijing during 2012 – 2013	HUO Zhe, XU Jun, GAO Bo (4143)
Analysis of the detection results of occupational hazard materials in the workplace air of electroplating enterprises in Kaiping in 2014	DENG Xiu – yan, WU Can – bin, LIN Chong – chang, <i>et al</i> (4147)
Bacterial Resistance Research	
Prevalence and drug resistance of <i>Staphylococcus aureus</i> carrying panton – valentine leukocidin genes	YANG Ying, ZHANG Chuan – ling, CHU Xu, <i>et al</i> (4150)
Analysis of potential drug resistance among untreated population with HIV – 1 in Shaoxing	FU Li – jun, HE Ting – ting, ZHAO Dan – yan, <i>et al</i> (4153)
Screening and analysis of <i>Enterobacteria</i> resistant to carbopenems and producing NDM – 1	HOU Chen – rui, RONG Jian – rong, LI Zi – yang, <i>et al</i> (4157)
Research on the anti – drug resistance of plasmid – induced <i>Salmonella typhimurium</i> to quinolones	ZHANG Wei – wei, FENG Bao – li, ZHENG Lan – zi, <i>et al</i> (4160)

创新轨迹 永不停息



我们为您提供
有竞争力的全线生化试剂产品

我们的 实力

追求卓越·成就未来

北京九强生物技术股份有限公司
金斯尔·九强生物旗下体外诊断试剂品牌
免费咨询电话 800-810-0197/1373

863计划

自 2011 年起，九强生物成为“863 计划”《体外诊断技术产品开发重大项目》“心脑血管慢性损伤及急救指标等体外诊断试剂的研制”项目成员之一。
2014 年，九强生物牵头 863 计划《人体营养素检测关键技术与产品开发》主题项目“人体维生素与抗氧化能力等检测系统及配套试剂的研发”课题。
课题编号：2014AA022304。

创业板成功上市

2014 年 10 月 30 日，九强生物在创业板首次公开发行 A 股成功上市。

连续九年上榜福布斯

2006 年 - 2014 年，九强生物连续九年被评为“福布斯中国潜力企业”。

CysC 国家标准物质制备

九强生物实验室参与 CysC 国家标准物质研制工作：

- 承担标准物质制备工作
- 参与标准物质定值工作
- 完成标准物质互换性测试