

ISSN 1004-8685
CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2015年4月 第25卷 第7期

Apr.2015 Vol.25 No.7

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

CJ
HLT

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

7

ISSN 1004-8685



9 771004 868156

中华预防医学会系列杂志
SERIAL JOURNAL OF CHINESE PREVENTIVE MEDICINE ASSOCIATION

2015

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

半月刊 1991 年创刊 第 25 卷 第 7 期 2015 年 4 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 4 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

- Th17 细胞在慢性鼻炎常见病中的表达及意义
..... 林向华,王英,肖旺贤,等 (913)
- 结缔组织病患者梅毒血清学检测异常情况分析
..... 马彦,岑雯,文晓冬,等 (917)
- 社区与医院获得性感染金黄色葡萄球菌毒力因子对比分析
..... 常燕子,裘雪丹,崔裕山,等 (920)
- 浙江省 55 株耐多药结核分枝杆菌基因突变特征分析
..... 柳正卫,吴蓓蓓,何海波,等 (924)

化学测定方法

- 八级杆碰撞反应池 ICP - MS 直接测定肝素钠中的 32 种元素
..... 彭荣飞,周宏伟,黄聪,等 (928)
- 气相色谱法测定 9 种拟除虫菊酯类农药的研究
..... 阮伟达,黄剑锋,叶文迪,等 (931)
- 顶空气相色谱法测定工作场所空气中的氯化苦
..... 郭和光,吴丹青,邵国健,等 (934)
- 微波消解 - ICP - MS 法测定手洗餐具洗涤剂中的 5 种元素
..... 周日东,欧阳珮珮,吴惠刚,等 (937)
- 气相色谱 - 串联质谱法测定淡水鱼中氯霉素残留量
..... 梁晓聪,王玮,田丽,等 (940)
- 电感耦合等离子体质谱法测定生活饮用水中的多种元素
..... 乔庆东,朱雅旭,庄景新,等 (943)

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 王栩东
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 李晓虹 李 蓉
宋宏彬 吴清平 杨 元 张 曦
邹学贤 姜庆五 赵 卓 高永清
贾珍珍 栗文元 凌文华 栾 燕
徐东群 曹 佳 曹润武 晁福袁
崔 巍 常风启 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 Jiahua, Cang Gongao, Fang Chiguang, Wang
Zhe, Wang Daning, Wang Zhiyu, Wang Jingyu,
Wang Xudong, Ye Nengquan, Bi Yongyi, Liu
Xiumei, Liu Dianwu, Lv Changyin, Qi Jian-
cheng, Ren Yiping, Sun Changhao, Sun Cheng-
jun, Xu Chunxiang, Chen Shoujian, He Jianguo,
He Zhesheng, He Xiaoping, Li Xiaohong, Li
Rong, Song Hongbin, Wu Qingping, Yang
Yuan, Zhang Xi, Zou Xuexian, Jiang Qingwu,
Zhao Zhuo, Cao Yongqing, Jia Zhenzhen, Li Wen-
yuan, Ling Wenhua, Luan Yan, Xu Dongqun,
Cao Jia, Cao Runwu, Chao Fuhuan, Cui Wei,
Chang Fengqi, Huang Guowei, Kang Hui, Kang
Weijun, Han Yuxia, Zeng Xianwei, Dou Zhi-
yong, Pu Ping, Kan Biao, Liao Baisen, Pei Shao-
jun, Pei Xiaofang, Tan Xiaodong, Xiong Ying,
Pan Hui, Ji Yuantang

网 址

www.cdc999.com

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

高效液相色谱法与免疫比浊法测定 HbA1c 结果一致性评估

..... 朱薇,郭苗,葛君刚,等 (945)

微乳液电动色谱法测定苹果汁中展青霉素 张琼方,夏环 (948)

实验研究

埃可病毒 9 型 VP1 蛋白的原核表达及多克隆抗体制备

..... 邱晓枫,黄志成,张国忠,等 (951)

Percoll 密度梯度离心法在血液组分分离及元素测定中的应用

..... 解清,孙璇,闫赖赖,等 (954)

杜仲雄花茶的毒理学安全性评价 高慧艳,于贺娟,徐冰,等 (959)

食品与药品检验

免疫荧光层析试纸条法检测食用油中的黄曲霉毒素 B₁

..... 李军涛,候水平,姬泽薇,等 (963)

破伤风类毒素免疫定量检测 钱雯,黄微,代云波,等 (966)

微波消解-电感耦合等离子体发射光谱法测定糕粉中滑石粉的含量

..... 李沛,毛振宁 (969)

凝胶渗透色谱净化-气质联用法同时测定方便面中的 BHA、BHT 和 TB-

HQ 陈桂琴,李桂生,肖庚鹏 (972)

石墨炉原子吸收光谱法测定二甲苯磺酸拉帕替尼中钼的残留量

..... 焦燕妮,聂宏寿,陈金东,等 (975)

微生物检测方法

水中诺如病毒浓缩与应急检测研究

..... 徐奋奋,蔡颖,黄亚琴,等 (977)

自动化 PCR 体系配置及 PCR 产物纯化系统的初步构建

..... 刁保卫,逢波 (980)

大肠菌群 MPN 计数法拟合在地方标准制定中的应用初探

..... 杨庆文,许燕,高菊美,等 (983)

119 例疑似非输血感染者抗-HCV 与 HCV RNA 检测结果比较与分析

..... 刘炜,王芳,张宁,等 (985)

临床检验

- 检测 TRAF-2 在骨肉瘤细胞中的表达及三氧化二砷、VEGF 对其表达的影响 ... 林晓,钟永翔,王恩智,等 (988)
- 应用 ROC 曲线评价抗环瓜氨酸肽抗体对类风湿性关节炎的最佳诊断界点 梁鹏,张劲丰,苏荣,等 (991)
- 2 型糖尿病伴背景性及增殖性视网膜病变的血脂六项分析 付广真,张曼 (994)
- 血清 C 反应蛋白、降钙素原检测在儿童感染性疾病诊断中的应用评价 岑院华 (996)
- 2013 年南通市成年人代谢综合征实验室检测结果分析 孙怡华,黄建萍 (999)
- 特种蛋白液态质控血清的制备及应用评价 王宇,王凤学,刘雁 (1002)
- 糖尿病患者血清肿瘤标志物水平及其与并发症的关系 谢晓英,钟日辉,刘晓强,等 (1005)
- 闭经患者的外周血染色体和性激素研究 宫剑,楼文文,邢超,等 (1008)
- 新生儿高胆红素血症血清 TORCH 特异性抗体检测的意义 郑颖,张宁 (1011)
- 2 型糖尿病合并骨质疏松症患者外周血中 MCP-1 表达水平及意义 黄晶,方丁,王亮,等 (1013)
- TEST1 自动血沉仪的准确性评价及校正 傅金可,冯康乐,王清平,等 (1015)
- SNP 分型探针检测浙江地区献血人群中 HNA-3 频率 钱定良,李强,邓刚,等 (1017)
- 急性重症心肌炎患者血浆 BNP 检测的临床意义 陈勇,杨葳,魏云,等 (1020)
- 运用 ROC 曲线评估降钙素原对血流感染的诊断意义 林晓晖,卓惠燕 (1022)
- 抗核小体抗体系列测定在系统性红斑狼疮诊断中的意义 王许娜,尹光辉,贺付成,等 (1025)
- 义乌地区女性生殖道 HPV 感染状况分析 丁爱娟,骆婷婷,傅祝能 (1028)

分子诊断与基因检测

- 925 例宫颈轻度炎症患者感染 HPV 及其基因型分析 曹清香,唐清,戴文,等 (1031)
- 温州地区女性人乳头状瘤病毒感染基因型分析 陈晓慧,褚美芬 (1034)
- 青岛市慢性丙型肝炎患者 HCV 基因分型与治疗效果关系的研究 杨奎真 (1038)

监测分析

- 新余市 2012 年-2013 年流感流行特征及监测 文奇,付倩,丁勇,等 (1040)
- 武汉市新近装修住宅中甲醛污染特征及健康风险评价 孙芳,刘俊玲,何振宇 (1043)
- 浙东渔场海产品中 EPA 和 DHA 含量分析 张志超,余新威,方力,等 (1046)
- 黔东南州 2010 年-2013 年农村饮用水水质监测结果分析 凯金祥,陈宇,吴桃丽,等 (1049)

2009 年 - 2013 年梧州市外环境霍乱弧菌监测现状评价	蔡周梅,郭永强,彭美薇,等	(1053)
大兴区 2012 年 - 2013 年生活饮用水氯化消毒副产物监测结果分析	王海云,李倩,房宁	(1056)
雅安市 2006 年 - 2014 年风疹血清 IgM 抗体分析	宋康,熊建明,刘思寨,等	(1058)
2010 年 - 2013 年贺州市市售食品食源性致病菌监测分析	尹志芬,饶贵平,梁琴,等	(1060)
调查报告		
永康市自产蔬菜中有害元素的污染调查研究	杨柳桦,胡云卿,林滔,等	(1064)
永康市自产蔬菜中 8 种元素的污染调查及结果分析	孙烨,胡云卿,林滔,等	(1068)
鹿城区 2011 年 - 2013 年男男性行为人群 HIV、梅毒调查分析	张秀新,薛芳辉,金镒华,等	(1073)
不同面值人民币卫生情况调查	张巍巍,冯宝立,郑兰紫,等	(1077)
杭州市土源性线虫感染现状及防治效果评价	金行一,朱素娟,徐卫民,等	(1080)
2007 年 - 2013 年深圳市福田区疑似麻疹、风疹血清学检测结果分析	陈润莉,曾华书,莫浩联,等	(1083)
特定人群乙肝和梅毒感染率调查结果分析	袁中行,仇红霞	(1086)
细菌耐药性研究		
温州地区不孕不育患者泌尿系统支原体感染和耐药情况分析	黄建芳,陈素菜,陈钦宏,等	(1089)
烧伤合并海水浸泡动物感染细菌及药敏实验研究	韩善桥,刘瑾红,虞积耀,等	(1093)
丹参酮联合头孢他啶、哌拉西林钠他唑巴坦对多重耐药铜绿假单胞菌的体外抗菌作用的研究		
.....	厉世笑,周鹏,朱珊珊,等	(1096)
经验交流		
铈铈催化分光光度法测定尿碘的体会	冯佩,邹晓华,董新风,等	(1099)
定量取样过量蒸馏测定奶酒中的酯	林春丽,杨增	(1100)
综 述		
适配体传感器检测微生物和病原菌方面的应用	丁忠英,吕建新	(1102)

CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 25 Number 7 April 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

April 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.cdc999.com

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

The expression and significance of Th17 cells in common diseases with chronic
rhinitis LIN Xiang - hua, WANG Ying, XIAO Wang - xian, *et al* (913)

Analysis of abnormalities about syphilis serology test among patients with con-
nective tissue disease ... MA Yan, CEN Wen, WEN Xiao - dong, *et al* (917)

Comparative analysis of virulence factor of *Staphylococcus aureus* in communi-
ty - and hospital - acquired infection
..... CHANG Yan - zi, QIU Xue - dan, CUI Yu - shan, *et al* (920)

Analysis of gene mutation characteristics of 55 multi - drug resistant *Mycobac-*
terium tuberculosis isolates in Zhejiang
..... LIU Zheng - wei, WU Bei - bei, HE Hai - bo, *et al* (924)

Chemical Detection Method

Direct determination of 32 elements in heparin sodium by ORS ICP - MS ...
..... PENG Rong - fei, ZHOU Hong - wei, HUANG Cong, *et al* (928)

Study on the method for determination of 9 kinds of pyrethroids pesticide by
gas chromatography
..... RUAN Wei - da, HUANG Jian - feng, YE Wen - di, *et al* (931)

Determination of chloropicrin in workplace air by headspace gas chromatog-
raphy GUO He - guang, WU Dan - qing, SHAO Guo - jian, *et al* (934)

Determination of 5 elements in dishwashing detergent by M digestion - ICP -
MS ZHOU Ri - dong, OUYANG Pei - pei, WU Hui - gang, *et al* (937)

Determination of chloramphenicol residues in freshwater fish by GC - MS/MS
..... LIANG Xiao - cong, WANG Wei, TIAN Li, *et al* (940)

Simultaneous determination of multiple elements in drinking water by ICP -
MS QIAO Qing - dong, ZHU Ya - xu, ZHUANG Jing - xin, *et al* (943)

Evaluation of testing results of HbA1c from IE - HPLC and ITM
..... ZHU Wei, GUO Miao, GE Jun - li, *et al* (945)

Detection of patulin in apple juice with MEC
..... ZHANG Qiong - fang, XIA Huan (948)

Experimental Study

Expression of VP1 protein of echovirus 9 in *Escherichia coli* and preparation of the corresponding polyclonal antibodies QIU Xiao - feng, HUANG Zhi - cheng, ZHANG Guo - zhong, *et al* (951)

The application of Percoll density gradient centrifugation in blood components separation and elements determination XIE Qing, SUN Xuan, YAN Lai - lai, *et al* (954)

Toxicological assessment on safety of eucommia ulmoides male flower tea GAO Hui - yan, YU He - juan, XU Bing, *et al* (959)

Food and Drug Inspection

An immunofluorescence chromatographic test method for detection of aflatoxin B₁ in edible oil LI Jun - tao, HOU Shui - ping, JI Ze - wei, *et al* (963)

Quantitative immunoassay detection of tetanus toxoid QIAN Wen, HUANG Wei, DAI Yun - bo, *et al* (966)

Determination of french chalk in cake power by microwave digestion - inductively coupled plasma atomic emission spectrometry LI Pei, MAO Zhen - ning (969)

Simultaneous determination of BHA, BHT and TBHQ in instant noodles by gas chromatography - mass spectrometry with gel permeation chromatography CHEN Gui - qin, LI Gui - sheng, XIAO Geng - peng (972)

Determination of residual palladium in lapatinib by graphite furnace atomic absorption spectrometry JIAO Yan - ni, NIE Hong - qian, CHEN Jin - dong, *et al* (975)

Microbe Detection Method

Research of the norovirus concentration of water and emergency detection XU Fen - fen, CAI Ying, HUNG Ya - qin, *et al* (977)

Initial establishment of automated PCR system configuration and PCR product purification system DIAO Bao - wei, PANG Bo (980)

Application and exploring of enumeration of coliforms fitting in formulating local standards YANG Qing - wen, XU Yan, GAO Ju - mei, *et al* (983)

Analysis and Comparison of anti - HCV and HCV RNA results of 119 patients with suspicious no - transfusion infection LIU Wei, WANG Fang, ZHANG Ning, *et al* (985)

Clinical Laboratory Test

The value of detecting TRAF - 2 at human osteosarcoma SaOS - 2 cell line and the expression affected by arsenic trioxide and VEGF LIN Xiao, ZHONG Yong - xiang, WANG En - zhi, *et al* (988)

Evaluation of the perfect diagnosis point of anti - cyclic citrullinated peptide antibodies to rheumatoid arthritis by ROC curves LIANG Peng, ZHANG Jin - feng, SU Rong, *et al* (991)

Analysis of six serum lipid level in type 2 diabetic patients with background diabetic retinopathy and proliferative diabetic retinopathy FU Guang - zhen, ZHANG Man (994)

Clinical application and evaluation of detection of C - reactive protein and procalcitonin in the diagnosis of infectious diseases in children CEN Yuan - hua (996)

Monitoring results and analysis of laboratory testing of metabolism syndrome in adults in Nantong city in 2013	SUN Yi - hua, HUANG Jian - ping (999)
The preparation and application evaluation of liquid quality control serum for special protein	WANG Yu, WANG Feng - xue, LIU Yan (1002)
The relationship between serum tumor biomarker levels and complication of diabetes patients	XIE Xiao - ying, ZHONG Ri - hui, LIU Xiao - qiang, <i>et al</i> (1005)
Analysis of peripheral blood chromosome and sex hormones for amenorrheal patients	GONG Jian, LOU Wen - wen, XING Chao, <i>et al</i> (1008)
Detection significance of TORCH specificity antibodies in hyperbilirubinemia of the newborn	ZHENG Ying, ZHANG Ning (1011)
Expression level and significance of MCP - 1 in serum of type 2 diabetes mellitus patients complicated with osteoporosis	HUANG Jing, FANG Ding, WNAG Liang, <i>et al</i> (1013)
The correction and evaluation of accuracy about TEST1 automatic ESR analyzer	FU Jin - ke, FENG Kang - le, WANG Qing - ping, <i>et al</i> (1015)
Determination of HNA - 3 genotype frequencies in blood donor population in Zhejiang by SNP typing prob assay	QIAN Ding - liang, LI Qiang, DENG Gang, <i>et al</i> (1017)
The clinical value of serum BNP detection for the acute severe viral myocarditis patients	CHEN Yong, YANG Wei, WEI Yun, <i>et al</i> (1020)
Diagnostic value of procalcitonin for blood stream infection evaluated by the receiver operating characteristic curve	LIN Xiao - hui, ZHUO Hui - yan (1022)
Significance of anti - nucleosome antibodies series in SLE ...	WANG Xu - na, YIN Guang - hui, HE Fu - cheng, <i>et al</i> (1025)
Analysis of the reproductive tract infections of human papilloma virus among female patients in Yiwu	DING Ai - juan, LUO Ting - ting, FU Zhu - neng (1028)

Molecular Diagnosis and Gene Detection

Analysis of HPV infection status quo and gene type among 925 women with cervical mild inflammation	CAO Qing - xiang, TANG Qing, DAI Wen, <i>et al</i> (1031)
Analysis of genotype of female human papillomavirus infection	CHEN Xiao - hui, CHU Mei - fen (1034)
Study on relationship between genotyping of hepatitis C virus and therapeutic effects in Qingdao	YANG Kui - zhen (1038)

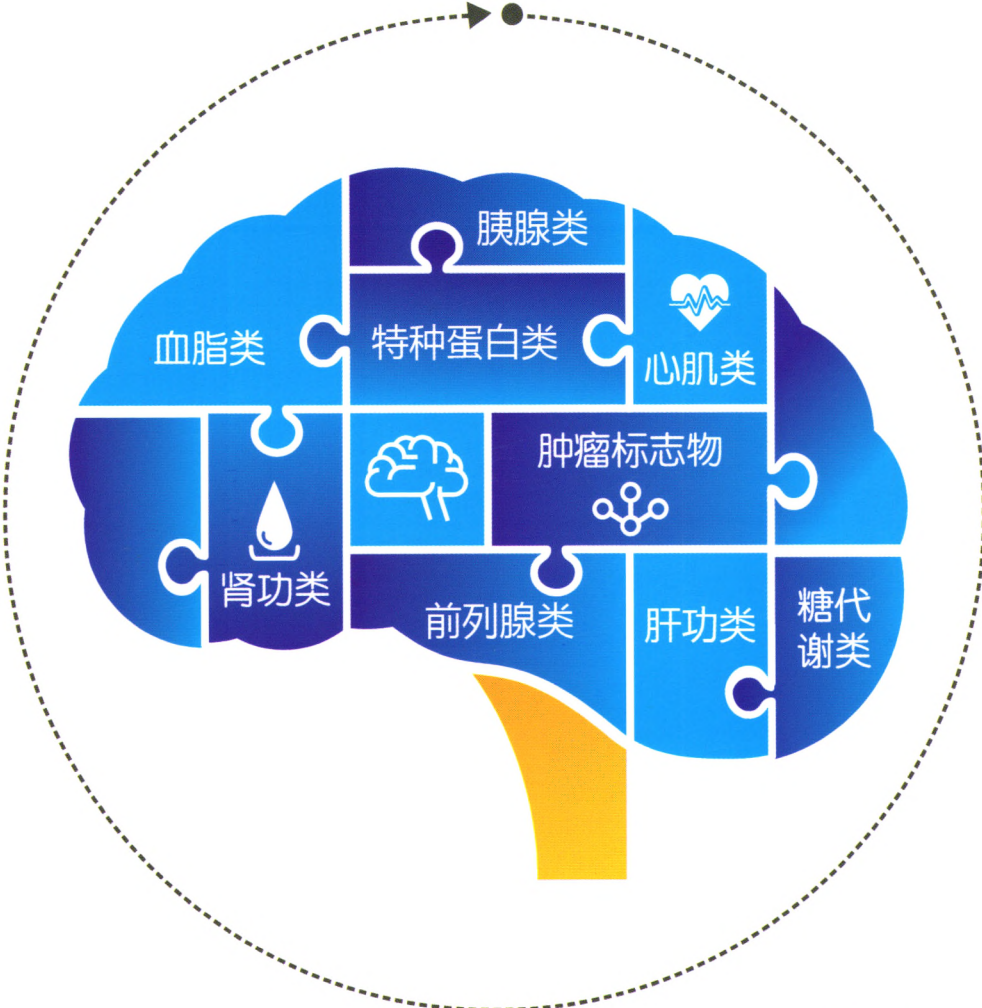
Monitoring and Analysis

Epidemiological features and surveillance of influenza in Xinyu from 2012 to 2013	WEN Qi, FU Qian, DING Yong, <i>et al</i> (1040)
Characterization and health risk assessment for the formaldehyde pollution in newly decorated household dwellings in Wuhan	SUN Fang, LIU Jun - ling, HE Zhen - yu (1043)
Eicosapentaenoic acid and Docosahexaenoic acid content analysis of marine products from the East Zhejiang Fishery	ZHANG Zhi - chao, YU Xin - wei, FANG - Li, <i>et al</i> (1046)

Analysis of the monitoring results of rural drinking water quality in Qianxinan from 2010 to 2013	KAI Jin - xiang, CHEN Yu, WU Tao - li, <i>et al</i> (1049)
Evaluation of the monitoring status of <i>Vibrio cholera</i> in external environment in Guangxi Wuzhou from 2009 to 2013	CAI Zhou - mei, GUO Yong - qiang, PENG Mei - wei, <i>et al</i> (1053)
Analysis of the monitoring results of chlorination disinfection by - products in drinking water in Daxing district from 2012 to 2013	WANG Hai - yun, LI Qian, FANG Ning (1056)
Analysis of serum IgM antibody of rubella from January 2006 to June 2014 in Ya' an	SONG Kang, XIONG Jian - ming, LIU Si - zhai, <i>et al</i> (1058)
Surveillance and analysis of food - borne pathogens in market - sell food in Hezhou from 2010 to 2013	YIN Zhi - fen, RAO Gui - ping, LIANG Qin, <i>et al</i> (1060)
Investigation Report	
Investigation of harmful elements pollution in self - grow vegetables in Yongkang	YANG Liu - hua, HU Yun - qing, LIN Tao, <i>et al</i> (1064)
Investigation and results analysis of the 8 elements pollution in vegetables in Yongkang	SUN Ye, HU Yun - qing, LIN Tao, <i>et al</i> (1068)
Surveillance and analysis of HIV/syphilis among men who have sex with men in Lucheng district during 2011 - 2013	ZHANG Xiu - xin, XUE Fang - hui, JIN Yi - hua, <i>et al</i> (1073)
Microbial contamination survey of different denominations RMB	ZHANG Wei - wei, FENG Bao - li, ZHENG Lan - zi, <i>et al</i> (1077)
Infection status of soil - transmitted nematodes and evaluation of control effect in Hangzhou	JIN Xing - yi, ZHU Su - juan, XU Wei - min, <i>et al</i> (1080)
Analysis of the the serological detection results of suspected measles and rubella in Futian district of Shenzhen during 2007 - 2013	CHEN Run - li, ZENG Hua - shu, MO Hao - lian, <i>et al</i> (1083)
Survey results of hepatitis b and syphilis infection rates of certain groups and its analysis	YUAN Zhong - hang, QIU Hong - xia (1086)
Bacterial Resistance Research	
Analysis of <i>Mycoplasma</i> infection and the drug resistance in urinary system of infertile patients in Wenzhou area	HUANG Jian - fang, CHEN Su - cai, CHEN Qin - hong, <i>et al</i> (1089)
Experimental study on the antimicrobial susceptibility of bacteria in animal infection due to burn and seawater immersion ...	HAN Shan - qiao, LIU Jin - hong, YU Ji - yao, <i>et al</i> (1093)
Study on vitro antibacterial activity of tanshinone joint ceftazidime, piperacillin tazobactam against multi - drug resistant <i>Pseudomonas aeruginosa</i>	LI Shi - xiao, ZHOU Peng, ZHU Shan - shan, <i>et al</i> (1096)



创新轨迹 永不不息



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