



ISSN 1004-8685  
CN 41-1192/R

# 中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2015年5月 第25卷 第10期

May.2015 Vol.25 No.10

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

10

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 10 期 2015 年 5 月 25 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 5 月 25 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

### 述 评

产碳青霉烯酶大肠埃希菌的耐药机制研究进展 .....  
..... 林晓伟,徐涛涛,吕火烺 (1489)

### 论 著

抗冻蛋白作为高效冷冻保护剂对易冷变性的 LDH 保护效果观察 .....  
..... 胡佳豪,王成康,金闪闪,等 (1493)

基于浊度测量的蛋白胨支持沙门菌生长效果评价 .....  
..... 赵贵明,赵勇胜,葛秋慧,等 (1496)

宁波市子宫颈感染 HPV 型别分布和 HPV16 型 E6、E7 基因分析 .....  
..... 张姝,李永东,倪红霞,等 (1499)

纳米金涂层毛细管电泳法快速检测猪肉和内脏中 3 种  $\beta_2$  受体激动剂  
..... 赵凌国,丘汾,李伟,等 (1503)

### 化学测定方法

尿液测定的 ICP - MS 与 GFAAS 方法比较 .....  
..... 应英,冯靓,汤堃,等 (1508)

胶束电动毛细管电泳法快速测定调味品中山梨酸和苯甲酸 .....  
..... 张礼春,高舸,王炼 (1510)

高效液相色谱法同时测定水中的二甲基甲酰胺和二甲基乙酰胺 .....  
..... 谭倩,余涛,陈秀杰 (1513)

流动注射法测定空气中酚类化合物影响因素研究 .....  
..... 吴云,叶玉龙,顾信君 (1516)

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 |
| 孙长颖 | 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  | 张贺秋 | 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  | 阙飙  |
| 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 Xiao - hong, LI Rong, SONG Hong - bin, WU Qing - ping, YANG Yuan, ZHANG Xi, ZHANG He - qiu, ZOU Xue - xian, JIANG Qing - wu, ZHAO Zhuo, CAO 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.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

实验研究

沉香叶的急性毒性和遗传毒性研究 ... 李庆,黄俊明,杨颖,等 (1518)

食品与药品检验

高效液相色谱法测定蜂胶中双胍类与噻唑烷二酮类合成降糖药物 ..... 滕军,况磊 (1522)

聚酰胺粉吸附 - 高效液相色谱法测定蜜饯中合成着色剂 ..... 戚荣平,孟琪,桑娴,等 (1525)

HPLC - MS/MS 法检测抗疲劳类保健品中的达泊西汀 ..... 胡婷婷,芦春梅,杨璐,等 (1528)

UPLC - MS/MS 快速测定食物中毒样品中的酵米面黄杆菌毒素 A ..... 林佳,许燕,赵世文,等 (1531)

HPLC 法同时测定维生素 C 咀嚼片中维生素 C 和糖的含量 ..... 张洁,翟志雷,张伟,等 (1534)

固相萃取 - 超滤离心 - 离子色谱法测定冰淇淋和雪糕中的硫氰酸盐 ... 李锦,燕阔,刘玉欣,等 (1537)

对羟基苯甲酸酯类防腐剂的抑菌效果评价 ..... 郑萍,丁培,武利平,等 (1540)

安顺市城郊零散蔬菜中铅、砷、铬、镉、铜的污染状况分析 ..... 王灵秋,董钧铭,徐林,等 (1542)

微生物检测方法

沙门菌免疫层析法快速检测试剂盒性能评价 ..... 秦建成,王晗,李波,等 (1546)

microRNA - 23b 对肠道病毒 71 型在神经细胞中复制的抑制 ..... 茅凌翔,杨静,沈俐,等 (1549)

环介导技术在流感检测中的应用与研究 ..... 高杰,王伟,郭斌,等 (1552)

实时荧光定量 RT - PCR、细胞培养法和鸡胚培养法在流感检测中的对比分析 ..... 于翔翔,杨焕森,高玉朋,等 (1555)



临床检验

经额定向软通道颅内微创穿刺引流术联合干细胞移植治疗高血压脑出血的比较研究 ..... 韦益停,徐黔,陈芳芳 (1558)

*ERCC1* 和 *TYMS* 的表达与晚期非小细胞肺癌患者采用替吉奥联合铂类化疗疗效的关系研究 ..... 廖茂良,古华,潘小稼 (1561)

心脏 X 综合征患者 PTX-3、超敏 C 反应蛋白水平变化 ..... 刘荣欣,陈慧巧,秦小霞,等 (1565)

POCT 分析仪和大型生化分析仪检测常规肾功能项目的比对研究 ..... 徐秀芬,蔡晓忠,张桂春,等 (1568)

胸水 IFN- $\gamma$  释放试验和腺苷脱氨酶活性检测在结核性胸腔积液鉴别诊断中的应用 ..... 沈荣林,徐金田,陈兆军,等 (1571)

检测 2 型糖尿病肾病患者血清 IL-18、ADPN、hs-CRP 和 Cys-C 的意义 ..... 黄建芳,黄全海,张爱敏 (1574)

精神分裂症患者血清中同型半胱氨酸水平及其临床意义 ..... 郑存庆 (1577)

联合检测 CRP、Hcy、D-二聚体在急性脑梗死诊断中的临床价值 ..... 李艳红,曹学珍 (1580)

非小细胞肺癌患者血清可溶性 B7-H4 检测的临床意义 ..... 李春仙,李美红,王峰 (1582)

涂阴结核病患者实验室检测方法 ..... 梁桂亮,李晓非,苏俊华,等 (1584)

成年非 CF 支气管扩张患者呼吸道菌群与临床测量指标间的相关性分析 ..... 杨畅,冯燕,王新卫,等 (1587)

慢性乙型肝炎肝细胞 HBsAg、HBcAg 表达与肝组织病理学分析 ..... 刘祖平 (1591)

血清 TPSA 检测在慢性前列腺炎诊断中的应用效果观察 ..... 张圣强,侯军林,张曼 (1594)

分子诊断与基因检测

2013 年广东省珠海市手足口病病原学研究 ..... 周兰兰,魏泉德,张丽荣,等 (1596)

人感染禽流感病毒 A/Zhejiang/LS01/2014(H7N9) 株 HA 基因序列分析 ..... 雷永良,王晓光,孙逸,等 (1600)

*F*XII 基因多态性对肺血栓栓塞的影响 ..... 谢耀盛,林杰,程晓丽,等 (1603)

2013 年北京市西城区沙门菌的监测、溯源及 PFGE 分型 ..... 安希龙,霍哲,高波,等 (1606)

沙门菌毒力岛基因在不同血清型沙门菌中的分布特点 ..... 王玉平,杨福江 (1609)

监测分析

无偿献血人群抗-HCV 筛查及确认情况分析 ..... 励晓涛,吴亚玲,祝宏,等 (1612)

江西省 2013 年疑似麻疹病例病原学实验室监测结果分析 ..... 龚甜,熊英,张艳妮,等 (1615)

东营市 2010 年-2013 年手足口病病原学监测分析 ..... 李萍,苏亚娟,梅立荣 (1618)

嘉兴市 2003 年-2012 年猪肉与可食内脏检测结果分析 ..... 谢文芳,王恒辉,朱泽,等 (1621)

阿坝州小金县 2003 年 - 2011 年痰涂片镜检结果分析 ..... 苟家蓉,周兴茂 (1624)

2010 年 - 2012 年十堰市 HIV 抗体确证阳性样本的分析 ..... 刘经凤 (1627)

通过饮用水检测结果分析民勤地下水水质和生态状况 ..... 方琳,柴尔闯 (1630)

调查报告

2014 年厦门地区市售牡蛎诺如病毒污染状况调查分析 ..... 柯明月,王坤明,陈佳璐,等 (1634)

2014 年兰州市疾病预防控制中心水质检测能力调查及对策研究 ..... 陆润兰,李盛,王金玉,等 (1638)

兰州市健康体检人群代谢综合征及相关因素调查分析 ..... 齐发梅,王春霞,李金龙,等 (1641)

贵州省 4 个民族人群 ABO 血型及血红蛋白分析 ..... 肖代敏,张志敏,张泉,等 (1644)

多起食用织纹螺中毒的流行病学调查 ..... 林学尧,林洁,张秀尧,等 (1646)

淄博市 2008 年 - 2013 年肺结核痰涂片镜检结果分析 ..... 李源,高风华 (1649)

不同年龄段女性宫颈人乳头状瘤病毒感染状况分析 ..... 李爱敏,李芳芳,唐曙明,等 (1652)

室内空气净化器微生物去除效果评价与选择 ..... 丁培,郑萍,丁理,等 (1655)

2011 年 - 2013 年北京市严重急性呼吸道感染病毒病原学调查 ..... 胡晓芬,王永全,张晶波,等 (1658)

细菌耐药性研究

2 种快速检测技术在结核分枝杆菌利福平耐药性检测中的应用评价 ..... 李晓非,梁桂亮,汪亚玲,等 (1661)

教学与实验室管理

品管圈活动降低临床检验危急值漏报率的应用 ..... 应孙科,施卫勳,吕美艳,等 (1664)

TOPSIS 法在生活饮用水水质综合评价中的应用及局限 ..... 宋重阳,张要锋 (1667)

2007 年 - 2013 年 5 市疾病预防控制中心理化项目实验室间比对结果评价 ..... 陆娟,史玉坤,殷红 (1669)

经验交流

县级疾病预防控制机构自行组织实验室间比对的做法与体会 ..... 虞精明,陈纬,易炎忠,等 (1673)

综合应用 Excel 2010 软件数组公式与数据透视表在尿干化学室间质评编码快速转换中的应用 .....  
..... 何宗忠,王强,龚娅,等 (1675)

综 述

结核分枝杆菌药敏试验表型检测法的新进展 ..... 穆成 (1678)

# CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 25 Number 10 May 25, 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

May 25, 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

Observation of the protective effect of antifreeze protein as protectant on freeze  
denaturation of lactate dehydrogenase .....

..... HU Jia - hao, WANG Cheng - kang, JIN Shan - shan, *et al* (1493)

Evaluation of the growth effect of *Salmonella* spp. supported by peptones based  
on turbidimetry .....

..... ZHAO Gui - ming, ZHAO Yong - sheng, GE Qiu - hui, *et al* (1496)

Distribution of human papillomavirus type and gene analysis of E6, E7 genes  
type of HPV16 in Ningbo city .....

..... ZHANG Shu, LI Yong - dong, NI Hong - xia, *et al* (1499)

Rapid determination of three  $\beta_2$  - agonists in pork and liver by gold nanoparti-  
cles coated capillary electrophoresis .....

..... ZHAO Ling - guo, QIU Fen, LI Wei, *et al* (1503)

### Chemical Detection Method

Comparison the detection method of ICP - MS and GFAAS in urine .....

..... YING Ying, FENG Liang, TANG Jun, *et al* (1508)

Rapid detection of sorbic acid and benzoic acid in seasoning by micellar elec-  
trokinetic capillary electrophoresis (MEKC) .....

..... ZHANG Li - chun, GAO Ge, WANG Lian (1510)

Simultaneous determination of dimethyl formamide and dimethyl acetamide in  
water by HPLC .....

TAN Qian, YU Tao, CHEN Xiu - jie (1513)

Study on influencing factors of determination of phenolic compounds in the air  
by the flow injection method .....

..... WU Yun, YE Yu - long, GU Xin - jun (1516)

### Experimental Study

Research on the acute toxicity and genetic toxicity of *Aquilaria sinensis*  
(*Lour.*) *Gilg.* leaf .....

..... LI Qing, HUANG Jun - ming, YANG Ying, *et al* (1518)

**Food and Drug Inspection**

|                                                                                                                                                                            |                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Determination of two kind of synthetic antidiabetic drugs of biguanides and thiazolidines two ketone synthesis in propolis by high performance liquid chromatography ..... | TENG Jun, KUANG Lei (1522)                                    |
| Determination of synthetic colorants in preserved fruit by polyamide adsorption – HPLC .....                                                                               | QI Rong – ping, MENG Qi, SANG Xian, <i>et al</i> (1525)       |
| Determination of dapoxetine in anti – fatigue health care products by HPLC – MS/MS .....                                                                                   | HU Ting – ting, LU Chun – mei, YANG Lu, <i>et al</i> (1528)   |
| Rapid determination of <i>Farinofermentans flavobacterium</i> toxin A in foods from incident food poisoning by UPLC – MS/MS .....                                          | LIN Ji, XU Yan, ZHAO Shi – wen, <i>et al</i> (1531)           |
| Simultaneous determination of vitamin C and sugar in chewable vitamin C by HPLC .....                                                                                      | ZHANG Jie, ZHAI Zhi – lei, ZHANG Wei, <i>et al</i> (1534)     |
| Determination of thiocyanate in icecream by SPE – ultrafiltration centrifugation – ion chromatography .....                                                                | LI Jin, YAN Kuo, LIU Yu – xin, <i>et al</i> (1537)            |
| Evaluation of <i>p</i> – hydroxybenzoate preservatives’ s antibacterial effect .....                                                                                       | ZHENG Ping, DING Pei, WU Li – ping, <i>et al</i> (1540)       |
| Analysis of the lead , arsenic , chromium , cadmium and copper pollution of scattered vegetables in suburban in Anshun .....                                               | WANG Ling – qiu, DONG Jun – ming, XU Lin, <i>et al</i> (1542) |

**Microbe Detection Method**

|                                                                                                                                                      |                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Performance verification of <i>Salmonella</i> detection kit by immune chromatography .....                                                           | QIN Jian – cheng, WANG Han, LI Bo, <i>et al</i> (1546)                |
| The inhibition of microRNA – 23b to the replication of enterovirus 71 in neurocytes .....                                                            | MAO Ling – xiang, YANG Jing, SHEN Li, <i>et al</i> (1549)             |
| The application and study of LAMP technique in detection for influenza virus .....                                                                   | GAO Jie, WANG Wei, GUO Bin, <i>et al</i> (1552)                       |
| Comparative analysis of real – time fluorescent quantitative RT – PCR, cell culture and chicken embryo culture in detection of influenza virus ..... | YU Xiang – xiang, YANG Huan – sen, GAO Yu – peng, <i>et al</i> (1555) |

**Clinical Laboratory Test**

|                                                                                                                                                                                    |                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| A comparative study on soft channel minimally invasive surgery combined with stem cell transplantation in the treatment of hypertensive cerebral hemorrhage .....                  | WEI Yi – ting, XU Qian, CHEN Fang – fang (1558)                        |
| Study on the relationship between <i>ERCC1</i> and <i>TYMS</i> expression with the S – 1 combined with platinum chemotherapy effect of non – small cell lung cancer patients ..... | LIAO Mao – liang, GU Hua, PAN Xiao – jia (1561)                        |
| The changes of pentraxin – 3 and hypersensitive C – reactive protein levels in patients with cardiac syndrome X .....                                                              | LIU Rong – xin, CHEN Hui – qiao, QIN Xiao – xia, <i>et al</i> (1565)   |
| Comparision study of the POCT and large biochemistry enzyme analyzer in detecting of some kindy function .....                                                                     | XU Xiu – feng, CAI Xiao – zhong, ZHANG Gui – Chun, <i>et al</i> (1568) |

|                                                                                                                                           |                                                               |        |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|
| <b>Application of interferon – gamma release assay and adenosine deaminase activity test in the diagnosis of tuberculous pleurisy</b>     | SHEN Rong – lin, XU Jin – tian, CHEN Zhao – jun, <i>et al</i> | (1571) |
| <b>Significance of testing serum IL – 18, ADPN, hs – CRP and Cys – C level in type two diabetic patients with nephropathy</b>             | HUANG Jian – fang, HUANG Quan – hai, ZHANG Ai – min           | (1574) |
| <b>The serum homocysteine level and clinical significance in patients with episode schizophrenia</b>                                      | ZHENG Cun – qing                                              | (1577) |
| <b>Clinical value of the combined detection of CRP, Hcy and D – dimer in the diagnosis of acute cerebral infarction</b>                   | LI Yan – hong, CAO Xue – zhen                                 | (1580) |
| <b>Clinical significance of sB7 – H4 detection in patients with non – small cell lung cancer</b>                                          | LI Chun – xian, LI Mei – hong, WANG Feng                      | (1582) |
| <b>Laboratory detection method of smear negative pulmonary tuberculosis laboratory</b>                                                    | LIANG Gui – liang, LI Xiao – fei, SU Jun – hua, <i>et al</i>  | (1584) |
| <b>Analysis of correlation between clinical measures of adult patients with non – CF bronchiectasis and airway microbiota composition</b> | YANG Chang, FENG Yan, WANG Xin – wei, <i>et al</i>            | (1587) |
| <b>The expression of the liver cell HBsAg, HBcAg in chronic hepatitis B and liver tissue pathology analysis</b>                           | LIU Zu – ping                                                 | (1591) |
| <b>Observation on the application effect of serum TPSA detection in the diagnosis of chronic prostatitis</b>                              | ZHANG Sheng – qiang, HOU Jun – lin, ZHANG Man                 | (1594) |
| <b>Molecular Diagnosis and Gene Detection</b>                                                                                             |                                                               |        |
| <b>Study on the etiology of hand – foot – mouth disease in Zhuhai, Guangdong in 2013</b>                                                  | ZHOU Lan – lan, WEI Quan – de, ZHANG Li – rong, <i>et al</i>  | (1596) |
| <b>Sequence analysis of hemagglutinin gene of avian influenza virus A/Zhejiang/LS01/2014(H7N9) strain</b>                                 | LEI Yong – liang, WANG Xiao – guang, SUN Yi, <i>et al</i>     | (1600) |
| <b>Effects of factor XII gene polymorphism on the pulmonary thrombus embolism</b>                                                         | XIE Yao – sheng, LIN Jie, CHENG Xiao – li, <i>et al</i>       | (1603) |
| <b>Study on monitoring, roots and PFGE molecular typing of <i>Salmonella</i> in Xicheng district, Beijing in 2013</b>                     | AN Xi – long, HUO Zhe, GAO Bo, <i>et al</i>                   | (1606) |
| <b>Distribution of <i>Salmonella</i> pathogenicity island genes in different <i>Salmonella</i> serovars</b>                               | WANG Yu – ping, YANG Fu – jiang                               | (1609) |
| <b>Monitoring and Analysis</b>                                                                                                            |                                                               |        |
| <b>Analysis of anti – HCV screening and confirmation of voluntary blood donation crowd</b>                                                | LI Xiao – tao, WU Ya – ling, ZHU Hong, <i>et al</i>           | (1612) |
| <b>Analysis of the laboratory surveillance results about the pathogen of suspected measles cases in Jiangxi province in 2013</b>          | GONG Tian, XIONG Ying, ZHANG Yan – ni, <i>et al</i>           | (1615) |
| <b>Etiologic surveillance and analysis of hand – foot – mouth disease in Dongying from 2010 to 2013</b>                                   | LI Ping, SU Ya – juan, MEI Li – rong                          | (1618) |



|                                                                                                                                                          |                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Analysis of inspection result reports of pork and edible viscera in Jiaxing from 2003 to 2012 .....</b>                                               |                                                                       |
| .....                                                                                                                                                    | XIE Wen – fang, WANG Heng – hui, ZHU Ze, <i>et al</i> (1621)          |
| <b>Analysis of the sputum smear microscopy results in Aba prefecture Xiaojin county from 2003 to 2011 .....</b>                                          |                                                                       |
| .....                                                                                                                                                    | GOU Jia – rong, ZHOU Xing – mao (1624)                                |
| <b>Analysis of samples with HIV confirmed positive antibody in Shiyan city from 2010 to 2012 .....</b>                                                   | LIU Jing – feng (1627)                                                |
| <b>Analysis of water quality of groundwater and ecological change trend of Minqin county by the detection results of the drinking water .....</b>        | FANG Lin, CHAI Er – chuang (1630)                                     |
| <b>Investigation Report</b>                                                                                                                              |                                                                       |
| <b>Investigation and analysis of norovirus contamination in market sale oyster in Xiamen in 2014 .....</b>                                               |                                                                       |
| .....                                                                                                                                                    | KE Ming – yue, WANG Kun – ming, CHEN Jia – lu, <i>et al</i> (1634)    |
| <b>Investigation of the water quality detection ability of different level CDCs and study on its strategy of Lanzhou in 2014 .....</b>                   |                                                                       |
| .....                                                                                                                                                    | LU Run – lan, LI Sheng, WANG Jin – yu, <i>et al</i> (1638)            |
| <b>Prevalence and risk factors of metabolic syndrome in physical examination population in Lanzhou .....</b>                                             |                                                                       |
| .....                                                                                                                                                    | QI Fa – mei, WANG Chun – xia, LI Jin – long, <i>et al</i> (1641)      |
| <b>Analyzing of ABO blood groups and hemoglobin of four nationality in Guizhou .....</b>                                                                 |                                                                       |
| .....                                                                                                                                                    | XIAO Dai – min, ZHANG Zhi – min, ZHANG Quan, <i>et al</i> (1644)      |
| <b>Epidemiological investigation of several accidental poisoning caused by nassarius .....</b>                                                           |                                                                       |
| .....                                                                                                                                                    | LIN Xue – yao, LIN Jie, ZHANG Xiu – yao, <i>et al</i> (1646)          |
| <b>Analysis of tuberculosis sputum smear microscopy in Zibo city from 2008 to 2013 .....</b>                                                             | LI Yuan, CAO Feng – hua (1649)                                        |
| <b>Analysis of cervical human papilloma virus infection in different ages women .....</b>                                                                |                                                                       |
| .....                                                                                                                                                    | LI Ai – min, LI Fang – fang, TANG Shu – ming, <i>et al</i> (1652)     |
| <b>Evaluation of microbial removal effect and the choice of indoor air purifier .....</b>                                                                |                                                                       |
| .....                                                                                                                                                    | DING Pei, ZHENG Ping, DING Cheng, <i>et al</i> (1655)                 |
| <b>Virus etiology investment on severe acute respiratory infection in Beijing from 2011 to 2013 .....</b>                                                |                                                                       |
| .....                                                                                                                                                    | HU Xiao – fen, WANG Yong – quan, ZHANG Jing – bo, <i>et al</i> (1658) |
| <b>Bacterial Resistance Research</b>                                                                                                                     |                                                                       |
| <b>Application evaluation of the two rapid detection technologies in the detection of rifampin resistance in <i>Mycobacterium tuberculosis</i> .....</b> |                                                                       |
| .....                                                                                                                                                    | LI Xiao – fei, LIANG Gui – liang, WANG Ya – ling, <i>et al</i> (1661) |

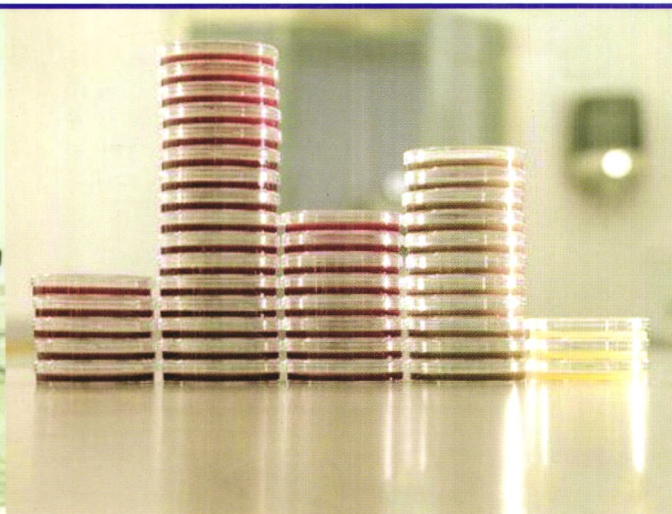
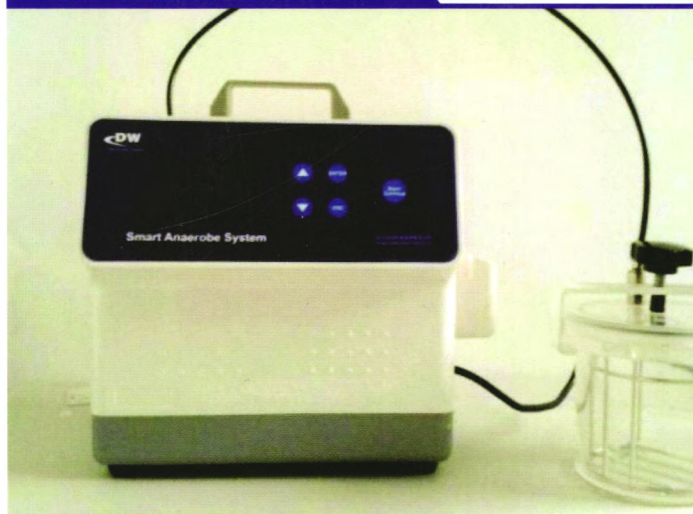
Editor in Charge BAI Yun

Responsibility of Proofreading LI Huan

# 杭州大微，推进中国微生物实验室自动化

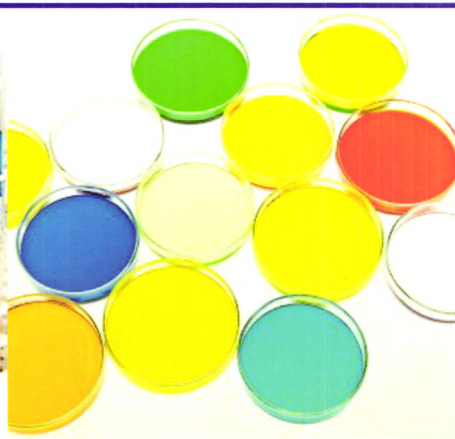
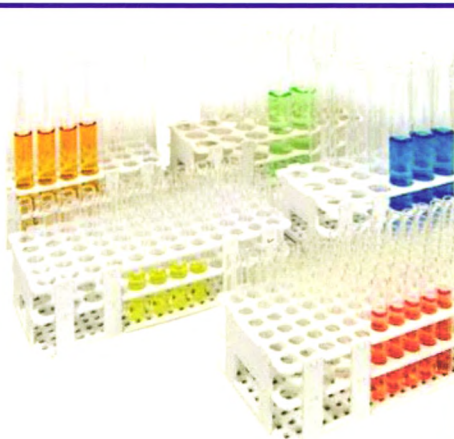
智能厌氧微生物培养系统

DW-100A-K型



微生物试剂分液器

DW-9型



## 杭州大微 品牌“DW系列经典微生物仪器”（从样品制备..... 到细菌分析）



微生物样品采集



样品稀释和均质



培养基制备分装



样品接种



微生物培养



细菌计数分析

杭州大微生物技术有限公司

地址: 杭州市西溪路525号浙江大学国家大学科技园A栋 邮编: 310013

T: 0571-88212538 87209536 F: 0571-87205295 E: dawei@dawei17.com

www.dawei17.com