



# 中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2021年7月 第31卷 第13期

Jul.2021 Vol.31 No.13

国家卫生健康委员会主管  
中华预防医学会主办

CHINESE  
JOURNAL OF HEALTH  
LABORATORY TECHNOLOGY

CJ  
HLT

RCCSE 中国核心学术期刊  
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

13

2021

ISSN 1004-8685



9 771004 868217

万方数据

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31卷 第13期 2021年7月10日出版

## 主管

国家卫生健康委员会  
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,北京市朝阳区华威里25号5层

## 名誉总编

丛玉隆

## 社长

张绍武

## 总编

徐英春

## 总编助理

张辉

## 常务副社长

杨师

## 副社长

张甜 姜友珍

## 副总编 (排名按姓氏笔画排列)

李永哲 李桂英 杨涛 应斌武 沈立松  
张克荣 张军营 林丽开 郁庆福 姜晓峰  
姚智 徐国宾 程伟

## 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

## 发行

国内发行:河南省邮政报刊发行局  
邮发代号:36-45  
国外发行:中国国际图书贸易集团有限公司  
(北京399信箱)  
国外发行代号:SM5752

## 中国标准连续出版物号

ISSN 1004-8685  
CN 41-1192/R

2021年版版权归中国卫生检验杂志社所有

## 定价

每期38元

万方数据

## 目次

### 论著

分子对接对人结直肠癌 HLA-A\*2402 限制性抗原肽亲和力的预测

作用 ..... 朱影,高岚岚,施燕飞,等 (1537)

急性脑出血短期预后不良患者血清白细胞介素-37 及淀粉样蛋白 A 的

变化及临床意义 ..... 刘明亮,丁新生 (1542)

同型半胱氨酸及 5,10-亚甲基四氢叶酸还原酶 C677T 多态性与朝鲜族

原发性高血压相关性研究 ..... 史嘉翊,王晓雪,赵若晗,等 (1545)

甘肃黄芪中稀土元素及部分无机元素含量研究 .....

..... 薛利新,蒲陶菊,张东城,等 (1549)

### 化学测定方法

QuEChERS 结合液质联用法同时测定化妆品中 6 种孕激素 .....

..... 吴鸳鸯,王任,陈岑 (1554)

超高效液相色谱-串联质谱联用法测定蔬菜和水果中 11 种杀虫剂和杀

菌剂 ..... 刘静,徐咏薇,刁晓霞 (1558)

常务编委 (排名按姓氏笔画排列)

丁家华 于维森 王 旻  
 王 哲 王大宁 王志玉  
 王凯娟 王京宇 王栩东  
 仓公敖 方赤光 毋福海  
 叶能权 冯晓燕 毕永毅  
 吕玉民 吕昌银 任一平  
 刘玉龙 刘运德 刘秀梅  
 刘殿武 汤乃军 祁建城  
 许春向 孙长颢 孙成均  
 李 蓉 李 磊 李明武  
 李晓虹 杨 元 吴清平  
 何建国 何晓青 何浙生  
 邹学贤 宋宏彬 张 蒙  
 张 曦 张万起 张贺秋  
 陆绍红 陈守建 房中则  
 赵 卓 赵雁林 姜庆五  
 栗文元 贾珍珍 晁福寰  
 徐东群 凌文华 栾 燕  
 高永清 黄国伟 曹 佳  
 常风启 崔 巍 康 辉  
 康维钧 韩玉霞 韩学尧  
 曾现伟 溥 萍 袁志勇  
 裴少军 裴晓方 廖百森  
 阚 飙 谭晓东 熊 英  
 潘 慧 冀元棠 穆新林

青年编委 (排名按姓氏笔画排列)

丁 萍 王 硕 牛凌梅  
 刘 欢 闫宏远 许宏敏  
 李 妍 李 萌 杨金玲  
 杨胜园 邹晓莉 汪 川  
 陈 曦 陈丽丽 周厚清  
 孟佩俊 徐向东 童叶青  
 鲍春梅

网 址

www.zgwsjy.com.cn

投稿电子信箱

wsjyzz@126.com

印 刷

河北鑫兆源印刷有限公司

顶空气相色谱法测定水果中硝基苯 ... 吴红苗,周临,张薇,等 (1562)

微生物检测方法

ICU 产肺炎克雷伯菌喹诺酮类药物耐药相关基因研究 .....  
 ..... 陈国忠,俞燕红,应建飞,等 (1564)

天水市儿童腹泻感染病原谱分析 ... 魏克敏,李莉,史东坡,等 (1567)

2016 年—2019 年温州市手足口病病原谱分析 .....  
 ..... 王建,邵永强,孙宝昌,等 (1570)

南阳市结核病防治机构就诊人员非结核分枝杆菌检出结果分析 .....  
 ..... 张阳,韦红 (1574)

临床检验

多囊卵巢综合征患者三酰甘油/高密度脂蛋白胆固醇比值与稳态模型胰

岛素抵抗的相关性研究 ..... 王智毅,徐冰,滕晓晶,等 (1576)

急性心肌梗死患者血清基质细胞衍生因子-1、CXC 趋化因子受体4 表达

水平与血小板活化的关系及对预后的影响研究 .....  
 ..... 杨建广,任诗佳,汪凌清,等 (1580)

lncRNA MIAT、LASP1 蛋白在甲状腺癌组织中的表达及预后相关性分析

..... 顾华敏,胡雪芹,曹学全,等 (1584)



Toll 样受体 2 和 Toll 样受体 4 在结直肠癌组织中的表达及其意义 .....	陈炜,许正国,杨永志	(1589)
血清 miRNA -223 与 miRNA -210 在急性脑梗死中的作用机制及其与炎症因子表达的相关性 .....	金晶	(1593)
改进后的高荧光淋巴细胞百分比、未成熟粒细胞百分比在经皮肾镜取石术后尿源性脓毒血症中的诊断价值 .....		
.....	成宇,沈敏强	(1597)
血清尿酸/肌酐比值与早期糖尿病肾病的相关性探讨 .....	孙悦,刘燕,王菲菲	(1600)
同型半胱氨酸和白介素 -6 联合检测在痛风患者早期肾损伤中的诊断价值 .....	钱慧玲,岳璟	(1603)
幽门螺杆菌在就诊人群中的分布特点和血清学分型 .....	陈俊	(1607)
血清降钙素原、纤维蛋白降解产物联合单核细胞趋化蛋白 -1 检测在儿童过敏性紫癜中的临床价值探讨 .....		
.....	李长青,靳秀红,闫伟玲	(1610)
人脑膜瘤患者血清增殖诱导配体、包含表皮生长因子的 fibulin 类细胞外基质蛋白 1、基质金属蛋白酶抑制剂 2 水平变化及其临床意义 .....	马红军,孙红卫,李永	(1614)
特发性血小板减少性紫癜患者外周血 Th1、Th17 细胞及其血清白细胞介素 -17、 $\gamma$ -干扰素水平的表达及临床意义 .....		
.....	胡江,方乐	(1618)
诸暨地区慢性丙型肝炎患者的基因型特征分析及其与血清 IL -18、IL -10 表达的相关性分析 .....		
.....	金浩森,王开英,毛炜,等	(1621)

## 调查·监测

1995 年—2019 年兰州市生活饮用水和兰州段黄河水的放射性水平分析 .....	王延俊,邬家龙,孙卫,等	(1625)
--	--------------	--------

佛山市顺德区复治涂阳肺结核患者耐药情况及影响因素分析 .....	陈榕,黄慧玲,欧阳燕芬,等	(1629)
尿前列腺抗原 3 检测对 PSA 4 ng/ml ~ 10 ng/ml 前列腺癌患者的诊断价值 .....	王秀华,沈俊文,王荣江	(1634)
海南省蔬菜、水果中有机磷农药残留情况的调查和风险评估 .....	黄惠玲,王朝政,庄鹏,等	(1637)
23 037 例儿童和成人血铅水平及中毒率分析 .....	林丹红,谢军花,杨春英,等	(1641)
2014 年—2019 年嵊州市 PM2.5 污染特征和健康影响 .....	张润松,欧晓阳	(1644)
舟山市严重急性呼吸道感染病毒病原学研究 .....	张辉,王虹玲,吴昺,等	(1647)
3 694 例妊娠妇女维生素 D 营养状况分析 .....	钱利强,沈国平	(1650)
2019 年河南食用植物油中苯并(a)芘污染水平及其膳食暴露评估 .....	李赵平,孙琳娟,王娜娜,等	(1653)
新生儿晚发型败血症导致感染性休克的危险因素分析及预测指标评价 .....	朱红芬,姜雪燕,徐浩	(1656)
商丘市重点村庄职业人群布鲁菌病知识知晓率调查 .....	邵利业,孟卫军	(1659)

## 党为人民谋健康的 100 年

百年党史对办好《中国卫生检验杂志》的启示 .....	廖兴广,袁鹏,周勇	(1662)
----------------------------	-----------	--------

责任编辑 张舒

责任校对 陈欣欣

英文编辑 张蒙 田辉

# CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 31 Number 13 July 10, 2021

## Managed by

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

## Sponsored by

Chinese Preventive Medicine Association  
Floor 5, No. 25 Huaweili, Chaoyang District, Beijing, 100021

## Honorary Editor - in - chief

CONG Yu - long

## President

ZHANG Shaò - wu

## Editor - in - chief

XU Ying - chun

## Assistant of Chief Editor

ZHANG Hui

## Executive Deputy President

YANG Shi

## Deputy President

ZHANG Tian, JIANG You - zhen

## Deputy Editor - in - chief (in Surname Stroke Order)

LI Yong - zhe, LI Gui - ying, YANG Tao, YING  
Bin - wu, SHEN Li - song, ZHANG Ke - rong,  
ZHANG Jian - ying, LIN Li - kai, YU Qing - fu,  
JIANG Xiao - feng, YAO Zhi, XU Guo - bin,  
CHENG Wei

## Director of Editorial Department

YANG Feng

## Edited by

Editorial Board of Chinese Journal of Health Labor-  
atory 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

## Domestic Distributor

Henan Post Newspaper and Periodicals Bureau  
Code: 36 - 45

## Overseas Distributor

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

## Website

www.zgwsjy.com.cn

## E - mail

wsjyzz@126.com

## Standard Series Number

ISSN 1004 - 8685  
CN 41 - 1192/R

Copyright 2021 by Editorial Department of  
Chinese Journal of Health Laboratory Technology

## Price

RMB ¥ 38

## CONTENTS IN BRIEF

### Original Articles

Affinity prediction of HLA - A \* 2402 restricted antigen peptides in human

colorectal cancer by molecular docking .....

..... ZHU Ying, GAO Lan - lan, SHI Yan - fei, *et al* (1537)

Changes and clinical significance of serum interleukin - 37 and serum amyloid

A in patients with poor short - term prognosis after acute cerebral hemorrhage

..... LIU Ming - liang, DING Xin - sheng (1542)

Study on the relationship between Hcy, 5,10 - methylenetetrahydrofolate reduc-

tase C677T polymorphism and essential hypertension in Korean Nationality ...

..... SHI Jia - yi, WANG Xiao - xue, ZHAO Ruo - han, *et al* (1545)

Study on the contents of rare earth elements and some inorganic elements in

Gansu *Astragalus* .....

..... XUE Li - xin, PU Tao - ju, ZHANG Dong - cheng, *et al* (1549)

### Chemical Detection Method

Simultaneous determination of 6 progestational hormones in cosmetics by

QuEChERS - high performance liquid chromatography - tandem mass spec-

trometry ..... WU Yuan - yang, WANG Ren, CHEN Cen (1554)

- Determination of 11 insecticides and fungicides in vegetables and fruits by ultra – high performance liquid chromatography coupled with tandem mass spectrometry ..... LIU Jing, XU Yong – wei, DIAO Xiao – xia (1558)
- Determination of nitrobenzene in fruits by headspace – gas chromatography .....  
 ..... WU Hong – miao, ZHOU Lin, ZHANG Wei, *et al* (1562)

## Microbe Detection Method

- Study on genes related to quinolone drug resistance of *Klebsiella pneumoniae* in ICU .....  
 ..... CHEN Guo – zhong, YU Yan – hong, YING Jian – fei, *et al* (1564)
- Pathogen spectrum analysis of diarrhea infection in children in Tianshui City .....  
 ..... WEI Ke – min, LI Li, SHI Dong – po, *et al* (1567)
- Analysis of pathogen spectrum of hand – foot – and – mouth disease in Wenzhou during 2016—2019 .....  
 ..... WANG Jian, SHAO Yong – qiang, SUN Bao – chang, *et al* (1570)
- Analysis on the detection results of non tuberculosis mycobacteria among the patients in tuberculosis prevention and control institutions in Nanyang City ..... ZHANG Yang, WEI Hong (1574)

## Clinical Laboratory Test

- Study on the relationship between TG/HDL – C and homeostasis insulin resistance in patients with polycystic ovary syndrome .....  
 ..... WANG Zhi – yi, XU Bing, TENG Xiao – jing, *et al* (1576)
- The relationship between serum SDF – 1, CXCR4 expressions and platelet activation in patients with acute myocardial infarction and its influence on prognosis ..... YANG Jian – guang, REN Shi – jia, WANG Ling – qing, *et al* (1580)
- Expressions of lncRNA MIAT and LASP1 proteins in thyroid cancer and their correlations with prognosis .....  
 ..... GU Hua – min, HU Xue – qin, CAO Xue – quan, *et al* (1584)
- Expression and significance of TLR2 and TLR4 in colorectal cancer .....  
 ..... CHEN Wei, XU Zheng – guo, YANG Yong – zhi (1589)

- Expression and clinical significance of serum miRNA -223 and miRNA -210 in patients with acute cerebral infarction** ..... JIN Jing (1593)
- The diagnostic value of improved hyperfluorescent lymphocytes ratio and immature granulocyte ratio in urosepsis after percutaneous nephrolithotomy** ..... CHENG Yu, SHEN Min - qiang (1597)
- The relationship between serum uric acid/creatinine and early diabetic nephropathy in patients with type 2 diabetes mellitus** ..... SUN Yue, LIU Yan, WANG Fei - fei (1600)
- The diagnostic value of homocysteine and interleukin -6 in the early renal injury of patients with gout** ..... QIAN Hui - ling, YUE Jing (1603)
- Distribution characteristics and serological typing of *Helicobacter pylori* in the population** ..... CHEN Jun (1607)
- Clinical value of serum procalcitonin, fibrin degradation product combined with monocyte chemoattractant protein -1 detection in children with Henoch - Schonlein purpura** ..... LI Chang - qing, JIN Xiu - hong, YAN Wei - ling (1610)
- Changes of serum APRIL, EFEMP1, TIMP2 levels in human meningiomas and their clinical significance** ..... MA Hong - jun, SUN Hong - wei, LI Yong (1614)
- Expression and clinical significance of serum Th1, Th17 cells and IL -17, IFN -  $\gamma$  levels in peripheral blood of ITP patients** ..... HU Jiang, FANG Le (1618)
- Analysis of genotypic characteristics of patients with regional chronic hepatitis C in Zhuji area and its correlation with the serum expression of IL -18 and IL -10** ..... JIN Hao - miao, WANG Kai - ying, MAO Wei, *et al* (1621)

## Investigation and Monitoring

- Radioactivity analysis on domestic drinking water of Lanzhou City and Yellow River water of Lanzhou section from 1995 to 2019** ..... WANG Yan - jun, WU Jia - long, SUN Wei, *et al* (1625)
- Analysis of drug resistance and influencing factors of smear positive pulmonary tuberculosis patients in Shunde District, Foshan City** ..... CHEN Rong, HUANG Hui - ling, OUYANG Yan - fen, *et al* (1629)



<b>Diagnostic value of urine PCA3 detection in patients with prostate cancer within PSA 4 ng/ml –10 ng/ml .....</b>	
.....	WANG Xiu – hua, SHEN Jun – wen, WANG Rong – jiang (1634)
<b>Survey and risk assessment of organophosphorus pesticide residues in vegetables and fruits in Hainan Province .....</b>	
.....	HUANG Hui – ling, WANG Chao – zheng, ZHUANG Peng, <i>et al</i> (1637)
<b>Analysis of lead blood levels and poisoning rates in 23 037 children and adults .....</b>	
.....	LIN Dan – hong, XIE Jun – hua, YANG Chun – ying, <i>et al</i> (1641)
<b>Characteristics of PM2.5 pollution in Shengzhou during 2014—2019 and its impact on health .....</b>	
.....	ZHANG Run – song, OU Xiao – yang (1644)
<b>Study on virus etiology of severe acute respiratory tract infection in Zhoushan City .....</b>	
.....	ZHANG Hui, WANG Hong – ling, WU Bing, <i>et al</i> (1647)
<b>Analysis of vitamin D nutritional status in 3 694 pregnant women .....</b>	QIAN Li – qiang, SHEN Guo – ping (1650)
<b>Contamination level of benzo (a) pyrene in edible vegetable oils and its dietary exposure assessment in Henan Province, 2019 .....</b>	
.....	LI Zhao – ping, SUN Lin – juan, WANG Na – na, <i>et al</i> (1653)
<b>Analysis of risk factors and evaluation of predictive indexes of septic shock caused by late – onset sepsis in neonates .....</b>	
.....	ZHU Hong – fen, JIANG Xue – yan, XU Hao (1656)
<b>Investigation on the awareness rate of brucellosis among the people of livestock villages in Shangqiu City .....</b>	
.....	SHAO Li – ye, MENG Wei – jun (1659)

**Editor in Charge** ZHANG Shu

**Proofreader** CHEN Xin – xin

**English Editor** ZHANG Meng TIAN Hui

热烈庆祝中国共产党成立100周年



建党百年辉煌路  
起航时代新征程

不忘初心

牢记使命

传播知识

护佑健康