

2

2023

2023年 第39卷 第2期
Vol.39 No.2 2023

ISSN 1000-8721

CN 11-1865/R



QK2257287

病毒学报

B I N G D U X U E B A O

CHINESE JOURNAL OF VIROLOGY



中国微生物学会

Chinese Society for Microbiology

目 次

人类病毒研究论著

抗 SARS-CoV-2 S 蛋白 IgM 单克隆抗体的表达及鉴定
.....张瑞雪,殷强玲,黄涛,钱振,芑为,王世文,梁米芳,孙丽娜,王晓芳(305)

真核表达纯化的 SARS-CoV-2 N 蛋白在不同人群血清检测中的应用性能分析
.....杨燕,王慧娟,黄梦婧,黄保英,赵莉,邓瑶,沈晓玲,谭文杰(313)

一种应对新冠变异株疫苗研制的免疫策略研究母昌勇,彭晓武,刘昌娥,郑丽春,李艳梅(322)

人呼吸道合胞病毒感染性克隆构建及其验证宋晶晶,毛乃颖,李海,朱武洋,许文波,张燕(334)

人呼吸道合胞病毒 F 蛋白多肽免疫原性的初步研究
.....胡宏俏,李海,黄星湖,任虎,江洁,张亚楠,宋晶晶,郭宏,时雨晴,赵建楠,张燕,宋洋,许文波(344)

6 种呼吸道病毒 RT-RPA 检测体系构建与应用徐聪灵,王静,耿合员,张阳,杨国平,陈峰,刘文干(354)

2019-2021 年广东省严重急性呼吸道感染病例中鼻病毒流行情况及其分子分型研究
.....杨康,谢家敏,黄鑫鑫,邓慧诗,李柏生,武婕,邹丽容(364)

朊蛋白体外扩增技术对不同种属朊病毒检测敏感性分析刘楚眸,杨微,肖康,武月章,陈冬冬,董小平,石琦(372)

柯萨奇病毒 A 组 6 型对利巴韦林耐药性的初步研究
.....王蕊,王聪聪,李晓亮,宋洋,刘莹,李冀琛,肖金波,路环环,刘志军,孙强,张勇(384)

牡蛎热休克蛋白 70 吸附人源诺如病毒功能域的解析王艳飞,张子蕾,罗广达,李静雯,王大鹏(393)

2010-2021 年杭州市儿童埃可病毒感染及流行特征分析邱晓枫,李钧,张国忠,于新芬,潘劲草,赵刚(401)

口服轮状病毒疫苗 RotaTeq 对不同人种轮状病毒胃肠炎免疫原性的 meta 分析
.....魏宇航,彭蕊,王萌璇,范佳欣,吴铮,毛彤瑶,王明雯,孙晓曼,李丹地(410)

miR-340-5p 及 PDCD4 在过表达乙肝病毒 X 蛋白的足细胞中的表达及生物学意义丁广智,徐佳,刘畅,吴国志(419)

miR-9 靶向调控 PTEN 在 HPV16+ 及 HPV18+ 宫颈癌细胞凋亡中的作用卢庭婷,陈基强,黄艳,张柯媛(427)

乙型脑炎病毒 NS1 蛋白激活 NF- κ B 通路诱导神经元细胞炎性焦亡赵晓燕,杨文静,高瑞娜,张勇刚(436)

2016-2020 年安徽省手足口病流行病学特征及 CVA6 基因进化分析
.....傅荔艳,葛盈露,马婉婉,冯明子,王鹏,罗婉蓉,孙永,史永林(445)

山东省 2017—2021 年手足口病流行病学特征及病原学监测分析张元元,王建醒,袁璐,张艺琳,王在翔,寇增强(453)

2017-2021 年宁夏急性弛缓性麻痹病例监测系统非脊灰肠道病毒病原鉴定分析
.....袁芳,曹慤,马学平,马江涛,马学旻,陈慧(460)

江西一例 iVDPV 病例Ⅲ型脊髓灰质炎病毒基因特征分析
.....郭琴,刘晓庆,肖芳,祝双利,王东艳,赵鹤鹤,路环环,肖金波,杨倩,李晓嫒,朱晖,冀天娇,王雯慧,何云,孙强,张勇,许文波,严冬梅(468)

11 种灭活型样本保存液对病毒核酸保护效果的比较史春丽,黄中强,范晓瑜,肖艳群,王雪亮(477)

专题论著

基于文献计量学的中国西尼罗病毒研究特征分析许崇晓,张维嘉,殷启凯,许松涛,聂凯,王环宇(484)

动物病毒研究论著

利用 CRISPR/Cas9 系统构建 ITG α V 及 ITG β 3 敲除细胞系	胡艺欣, 吴兴一, 李泽辉, 靳晓慧, 胡慧(491)
基于 GEO 数据分析的猪病毒源 siRNA	吴耀棠, 吴洋, 赵晋豪, 卢丹青, 林建, 杨倩(499)

综 述

新型冠状病毒肺炎长期健康损害的研究进展	陈祺, 胡潇文, 黄兴成, 黄悦, 吴婷(509)
新冠病毒变异株“奥密克戎”的研究进展	孙泽宇, 柴佳彤, 许建成(517)
关于新型冠状病毒动物宿主和动物感染的研究进展	程瑶瑶, 陈佳丽, 张娜, 郭金鹏, 陈勇, 王长军(528)
痘病毒非结构蛋白拮抗 IFN-I 介导免疫逃逸机制研究进展	张天琦, 管晓慧, 苏锐, 王炜(539)
基于质粒的轮状病毒反向遗传学研究进展	刘夏飞, 段招军(549)
诺如病毒在我国鲜食农产品中污染情况的研究进展	刘贤金, 王少萌, 谢雅晶(561)
蛋白质组学在病毒学研究中的应用	陈雅萍, 孙欣, 王盛羽, 敖弟书, 宋鸿(572)
Hsp70 在病毒复制中的作用	梅佳佳, 赵建元, 刘倩, 岑山, 魏涛(583)
DNA 甲基转移酶 DNMT3A 在人类常见病毒感染中的研究进展	王绪萌, 于鑫, 翟爱霞, 王燕(589)
四次跨膜蛋白在病毒感染中作用的研究进展	李婉莹, 叶伟, 薛亚娟, 张芳琳(599)

信 息

- 《病毒学报》获得中国精品科技期刊顶尖学术论文(F5000)项目来源期刊证书(2017-2020 年)(封二)
- 《病毒学报》获得中国精品科技期刊证书(2008 年)(封三)
- 《病毒学报》入编《中文核心期刊要目总览》2020 年版(第 9 版)之基础医学类核心期刊(插页)
- 《病毒学报》获得中国科技核心期刊收录证书(2022 年)(插页)
- 《病毒学报》获得 RCCSE 中国核心学术期刊(A)证书(2020 年)(插页)
- 《病毒学报》获得中国科学引文数据(CSCD)核心来源期刊证书(2021-2022 年)(插页)
- 《病毒学报》入选《中国学术期刊影响因子年报》统计来源证书(2022 版)(插页)
- 《病毒学报》中国学术期刊影响因子年报(自然科学与工程技术 2022 版)(插页)
- 2023 年中国微生物学会及各专业委员会学术活动计划表(插页)
- 《病毒学报》征稿简则(2018 年 12 月 25 日修订)(插页)
- 《病毒学报》第七届编辑委员会成员名单(插页)

期刊基本参数:CN-11-1865/R * 1985 * b * A4 * 304 * zh * P * 128 * 800 * 33 * 2023-02
执行主编:王玉梅 责任编辑:王玉梅 编辑:魏岚 助理执行编辑:胡大伟 助理编辑:张良一
专业英文审校:张智清 出版英文审校:魏岚 王玉梅

CONTENTS

Human Virus Articles

Expression and Identification of Anti-SARS-CoV-2 S Protein IgM Monoclonal Antibody
.....ZHANG Ruixue, YIN Qiangling, HUANG Tao, QIAN Zhen, WU Wei, WANG Shiwen, LIANG Mifang, SUN Lina, WANG Xiaofang (312)

Application and Performance of SARS-CoV-2 N Protein Expressed and Purified by Eukaryotic Expression System in Serum Detection Among Different Populations
...YANG Yan, WANG Huijuan, HUANG Mengjing, HUANG Baoying, ZHAO Li, DENG Yao, SHEN Xiaoling, TAN Wenjie (321)

Study on An Immunization Strategy for Development of Vaccines Against SARS-CoV-2 Variants
.....MU Changyong, PENG Xiaowu, LIU Chang'e, ZHENG Lichun, LI Yanmei (333)

Construction and Verification of Infectious Clone of Human Respiratory Syncytial Virus
.....SONG Jingjing, MAO Naiying, LI Hai, ZHU Wuyang, XU Wenbo, ZHANG Yan (343)

Preliminary Study on the Immunogenicity of F Protein Peptide of the Human Respiratory Syncytial Virus
.....HU Hongqiao, LI Hai, HUANG Xinghu, REN Hu, JIANG Jie, ZHANG Yanan, SONG Jingjing, GUO Hong, SHI Yuqing, ZHAO Jiannan, ZHANG Yan, SONG Yang, XU Wenbo (353)

Establishment and Application of A RT-RPA Detection System for Six Respiratory Viruses
.....XU Congling, WANG Jing, GENG Heyuan, ZHANG Yang, YANG Guoping, CHEN Feng, LIU Wengan (363)

Prevalence and Molecular Typing of Rhinoviruses in People with Severe Acute Infection of the Respiratory Tract in Guangdong Province, China, 2019–2021.....YANG Kang, XIE Jiamin, HUANG Xinxin, DENG Huishi, LI Bosheng, WU Jie, ZOU Lirong (371)

Sensitivity Analysis of Prion Protein Amplification *in Vitro* for Detection of Different Prion Species
.....LIU Chumou, YANG Wei, XIAO Kang, WU Yuezhong, CHEN Dongdong, DONG Xiaoping, SHI Qi (383)

Preliminary Study on Resistance of Coxsackievirus A6 to Ribavirin
.....WANG Rui, WANG Congcong, LI Xiaoliang, SONG Yang, LIU Ying, LI Jichen, XIAO Jinbo, LU Huanhuan, LIU Zhijun, SUN Qiang, ZHANG Yong (392)

Analysis of the Functional Domain of Oyster Heat Shock Protein 70 that Binds to Human Norovirus
.....WANG Yanfei, ZHANG Zilei, LUO Guangda, LI Jingwen, WANG Dapeng (400)

Detection and Epidemiological Characteristics of Pediatric Echovirus Infection in Hangzhou City, China, from 2010 to 2021
.....QIU Xiaofeng, LI Jun, ZHANG Guozhong, YU Xinfen, PAN Jinciao, ZHAO Gang (409)

Meta-analysis of the Immunogenicity of RotaTeq Oral Rotavirus Vaccine Against Rotavirus Gastroenteritis in Different Races
.....WEI Yuhang, PENG Rui, WANG Mengxuan, FAN Jiaxin, WU Zheng, MAO Tongyao, WANG Mingwen, SUN Xiaoman, LI Dandi (418)

Expression and Biological Significance of miR-340-5p and PDCD4 in Podocytes Overexpressing Hepatitis B Virus X Protein
.....DING Guangzhi, XU Jia, LIU Chang, WU Guozhi (426)

Role of miR-9-Targeted Regulation of PTEN in the Apoptosis of HPV16+ HPV18 + Cervical Cancer Cells
.....LU Tingting, CHEN Jiqiang, HUANG Yan, ZHANG Keyuan (435)

Transfection with NS1 Protein Aggravates JEV-induced Pyroptosis *via* Activation of the NF-κB Signaling Pathway in SH-SY5Y Cells
.....ZHAO Xiaoyan, YANG Wenjing, GAO Ruina, ZHANG Yonggang (444)

Epidemiological Characteristics of Hand, Foot, and Mouth Disease, and Genetic Evolution Analysis of CVA6 in Anhui Province in 2016-2020, China	
.....FU Liyan, GE Yinglu, MA Wanwan, FENG Mingzi, WANG Peng, LUO Wanrong, SUN Yong, SHI Yonglin	(452)
Epidemiological Characteristics and Etiology of HFMD Cases in Shandong Province, China, from 2017 to 2021	
.....ZHANG Yuanyuan, WANG Jianxing, YUAN Lu, ZHANG Yilin, WANG Zaixiang, KOU Zengqiang	(459)
Typing and Identification of Non-polio Enterovirus from Acute Flaccid Paralysis Cases in Ningxia During 2017-2021, China	
.....YUAN Fang, CAO Min, MA Xueping, MA Jiangtao, MA Xuemin, CHEN Hui	(467)
Genetic Characterization of Type 3 Immunodeficiency Vaccine-derived Polioviruses in A Patient in Jiangxi Province, China	
.....GUO Qin, LIU Xiaoqing, XIAO Fang, ZHU Shuangli, WANG Dongyan, ZHAO Hehe, LU Huanhuan, XIAO Jinbo, YANG Qian, LI Xiaolei, ZHU Hui, JI Tianjiao, WANG Wenhui, HE Yun, SUN Qiang, ZHANG Yong, XU Wenbo, YAN Dongmei	(476)
Comparison of 11 Inactivated Sample-Preservation Solutions for Protection of Viral Nucleic Acids from Degradation	
.....SHI Chunli, HUANG Zhongqiang, FAN Xiaoyu, XIAO Yanqun, WANG Xueliang	(483)
Special Article	
Characteristics of the Literature on the West Nile Virus in China Based on Bibliometrics	
.....XU Chongxiao, ZHANG Weijia, YIN Qikai, XU Songtao, NIE Kai, WANG Huanyu	(490)
Animal Virus Articles	
Establishment of ITC α V Gene and ITC β 3 Gene Knockout Cell Lines Mediated by the CRISPR/Cas9 System	
.....HU Yixin, WU Xingyi, LI Zehui, JIN Xiaohui, HU Hui	(498)
Analysis of siRNAs Derived from Swine-originated Viruses Based on GEO Data	
.....WU Yaotang, WU Yang, ZHAO Jinhao, LU Danqing, LIN Jian, YANG Qian	(508)
Review of Literatures	
Current Understanding About the Long-term Health Impairment of COVID-19	
.....CHEN Qi, HU Xiaowen, HUANG Xingcheng, HUANG Yue, WU Ting	(516)
Research Progress on the Omicron Variant of SARS-CoV-2	SUN Zeyu, CHAI Jiatong, XU Jiancheng (527)
Research Progress of SARS-CoV-2 Animal Host and Animal Infection	
.....CHENG Yaoyao, CHEN Jiali, ZHANG Na, GUO Jinpeng, CHEN Yong, WANG Changjun	(538)
Research Advances in the Antagonism of Interferon-I-Mediated Mechanisms of Immune Escape by Poxvirus-encoded Proteins	
.....ZHANG Tianqi, ZAN Xiaohui, SU Rui, WANG Wei	(548)
Advances in Study on Plasmid-based Reverse Genetics for Rotavirus	LIU Xiafei, DUAN Zhaojun (560)
Norovirus Contamination of Fresh Produce in China	LIU Xianjin, WANG Shaomeng, XIE Yajing (571)
Application of Proteomics Technology in Virology Research	
.....CHEN Yaping, SUN Xin, WANG Shengyu, AO Dishu, SONG Hong	(582)
Effects of HSP70 on Virus Replication	MEI Jiajia, ZHAO Jianyuan, LIU Qian, CEN Shan, WEI Tao (588)
Research Progress of DNA Methyltransferase DNMT3A in Viral Infection	WANG Xumeng, YU Xin, ZHAI Aixia, WANG Yan (598)
The Roles of Tetraspanins in Viral Infection	LI Wanying, YE Wei, XUE Yajuan, ZHANG Fanglin (608)

病毒学报

第39卷 第2期 2023年3月

(双月刊 1985年创刊)

主管单位 中国科学技术协会
主办单位 中国微生物学会
编辑 《病毒学报》编辑委员会
(北京西城区迎新街100号100052)

总编辑 许文波
执行主编/编辑部主任 王玉梅
出版 《病毒学报》编辑部
(北京西城区迎新街100号100052)
电话/传真: 8610-63536460
E-mail: bjb@bdxb.net.cn

主页 <http://bdxb.cbpt.cnki.net>

印刷装订 北京科信印刷有限公司
国内发行 北京市报刊发行局

订 阅 全国各地邮局

国外发行 中国国际图书贸易总公司

国际标准连续出版物号 ISSN 1000-8721
国内统一连续出版物号 CN 11-1865/R
国内邮发代号 82-227
国外发行代号 BM6448

CHINESE JOURNAL OF VIROLOGY

Vol.39 No.2 March 2023

(Bimonthly, Established in 1985)

Responsible Institution: China Association for Science
and Techology

Sponsored by Chinese Society for Microbiology

Edited by Editorial Board of Chinese Journal
of Virology (100 Ying Xin Jie, Xi Cheng Qu,
Beijing 100052, China)

Editor-in-Chief: XU Wenbo

Executive Editor/Director of Editorial Office: WANG Yumei

Published by Editorial Office of Chinese Journal
of Virology (100 Ying Xin Jie, Xi Cheng Qu,
Beijing 100052, China)

Tel/Fax: 8610-63536460

E-mail: bjb@bdxb.net.cn

[Http://bdxb.cbpt.cnki.net](http://bdxb.cbpt.cnki.net)

Beijing Kexin Printing Co., Ltd.

Distributed by Beijing Bureau for Distribution
of Newspapers and Journals

Domestic Subscription: All Local Post Offices in China

Foreign: China International Book Trading Corporation

International Standard Serial Number: ISSN 1000-8721

CN Serial Numbering: CN 11-1865/R

Post Office Code: 82-227



ISSN 1000-8721



每册定价: 128元 全年定价: 768元

万方数据

