



中文核心期刊
中国科技核心期刊

ISSN 1005-4545



-1234/R

QK2142101

ZSXUF5



CHINESE JOURNAL OF VETERINARY SCIENCE

中国兽医学报

第41卷 Vol.41

2021-10

10

吉林大学 主办

ISSN 1005-4545



万方数据

中国兽医学报

ZHONGGUO SHOUYI XUEBAO

月刊

1981 年创刊

2021 年 10 月

第 41 卷

第 10 期

目次

研究论文

预防兽医学基因 VII 型新城疫病毒 F 基因 DNA 及亚单位疫苗细胞免疫效果评估

..... 李 乐, 孙军峰, 陈林娜, 师乾凯, 邸 涛, 刘添仪, 赵 冉, 张春玮, 韩宗玺, 刘胜旺(1887)

去泛素化酶抑制剂 b-AP15 抑制马立克氏病病毒的复制

..... 于 翀, 王文婧, 谢知航, 周正轩, 王 婷, 范青松, 王梦涵, 吕 岩, 许家翠, 艾永兴(1894)

一种可视化双重荧光 RT-LAMP 方法鉴别不同毒力新城疫病毒

..... 曾婷婷, 谢丽基, 谢芝勋, 罗思思, 李 孟, 黄娇玲, 张民秀, 张艳芳, 范 晴, 邓显文(1902)

PRRS 减毒活疫苗抗体消长规律及仔猪最佳首免日龄探究

..... 高 胜, 李 洋, 马志倩, 李志伟, 徐乐乐, 焦 点, 冯英桐, 杜兴乾, 肖书奇(1909)

PCV2/PCV3 二价重组杆状病毒疫苗的构建与鉴定

..... 徐 鹏, 姜宇航, 许 汪, 宋利娜, 李乐天, 陈 竞, 郝鹏飞, 金宁一, 任林柱, 李 昌(1915)

牛病毒性腹泻病毒基因 2 型云南株的分离与鉴定

..... 普浩宇, 弓开兴, 杨贵伟, 程美玲, 黄必志, 王 蓉, 任珂青, 尹革芬(1922)

河北省致犊牛腹泻主要病原多重 PCR 检测方法的建立

..... 高亚桃, 李 妍, 刘立元, 王 猛, 郭姚蕊, 刘胜丽, 马亚宾, 蒋桂娥, 刘志勇, 秦建华, 赵月兰(1930)

河南省牛肠道病毒感染的流行病学调查与分析

..... 钱明珠, 胡俊英, 林 倩, 孙鹤文, 王玮玉, 李 欣, 王申锋, 王新平(1937)

外泌体介导小反刍兽疫病毒疫苗株 N75-1 在细胞间的传播

..... 张乐言, 万阳丽, 王婉泽, 许其华, 马楠譔, 王晶钰, 齐雪峰(1942)

检测羊肠道病毒 RT-PCR 方法的建立及初步应用

..... 董 坤, 胡俊英, 李卓宸, 蔡梦露, 章 凡, 王玮玉, 王浴光, 王新平(1949)

山羊源海藻糖比伯斯坦杆菌(*Bibersteinia trehalosi*)铁结合蛋白 A 的原核表达与结构预测分析

..... 张疏桐, 田 鑫, 胡天豪, 孙筱峰, 张 耕, 程方俊, 罗献梅, 宋振辉, 郭建华(1953)

4 种家兔呼吸道致病菌多重 PCR 的建立及初步应用

..... 仇汝龙, 范志宇, 胡 波, 宋艳华, 魏后军, 陈萌萌, 朱伟峰, 薛家宾, 王 芳(1958)

人兽共患病 骆驼肠道外致病性大肠杆菌分离鉴定及生物学特性分析 樊嘉琦, 马维武, 周学章(1963)

林麝源大肠埃希菌的分离、鉴定及耐药性与致病性分析

..... 赵学亮, 李 哲, 王晨骁, 王 娟, 王兴龙, 党如意, 杨增岐(1970)

西藏牦牛源沙门菌的分离鉴定及耐药分析

..... 李天娇,周赛赛,斑马泽郎,吴 丹,卢姊豪,尹力鸿,吕家煌,赵晓慧,李 霞,索朗斯珠(1976)

口蹄疫病毒样颗粒诱导的肥大细胞活化对 IgG 应答的影响

..... 刘佳欢,崔 川,张俊娟,韩伟建,张义明,李丽敏,王家鑫(1983)

基础兽医学一种表达 eGFP 的 rAAV-SaCas9 系统的构建及应用

..... 赵忆甜,李秀青,王晓帆,高 峰,张坤朋,翁少亭(1990)

维甲酸对成肌细胞细胞周期进程及凋亡的影响

..... 李成绪,马 莉,连 帅,徐 彬,逯静静,李鑫月,李倩茹,杨焕民(1998)

麦哲伦企鹅曲霉菌病的组织病理学观察和病原分离鉴定

..... 宋志琦,孙艳明,苏 磊,屈亚锦,赵文杰,韩云林,秦 川(2003)

绵羊乳腺上皮细胞的分离鉴定及炎性模型的建立 宣超莹,段景龙,刘茂军,马玉忠(2009)

3 例犬皮肤肥大细胞瘤病理学及 c-kit 免疫组织化学染色研究

..... 马 莹,谢腾熠,张 竞,石俊超,高 蕊,徐荣艺,贺文琦,高 丰,陆慧君(2015)

临床兽医学AEE 在人工胃/肠液和肠道菌群及生物样品中的稳定性

..... 陶 琦,秦 哲,白莉霞,刘希望,李世宏,杨亚军,李剑勇(2021)

羟基红花黄色素 A 对 LPS 诱导的羊子宫内膜上皮细胞炎性反应的抑制作用

..... 段景龙,宣超莹,刘茂军,马玉忠(2027)

动物科学双乾肉羊全基因组 SNP/InDel 分析及毛色相关候选基因鉴定

..... 刘正喜,武 斌,胡明月,白春艳,赵中利,曹 阳,马惠海,闫守庆(2032)

miRNA-370 及其靶基因 Wnt3a 和 KITLG 在白色和棕色绒山羊皮肤中的表达与定位

..... 李建平,吴素芳,李健宇,香 巴(2038)

膨化艾草秸秆对湖羊生长性能、血清抗氧化及免疫的影响

..... 侯沛君,张立阳,韩 露,杨亚博,高腾云,王林枫,朱河水,付 彤(2044)

综 述

异尖线虫检测技术研究进展 陈秀琴,刘晓雷,林锋强,白 雪(2051)

西尼罗河病毒感染与免疫机制研究进展 孙 静,何 展,蔡 畅,卫芳芳,程昌勇,宋厚辉(2059)

牛呼吸道疾病综合征防治研究进展 陈 平,王 斐,何振富,郝怀志(2064)

金黄色葡萄球菌生物膜形成及调控机制研究进展 李新圃,罗金印,武小虎,李宏胜,丁学智(2069)

间充质干细胞治疗动物肾损伤研究进展 何文来,李巴仑,张慧敏,刘蕴蝶,彭 莎(2076)

简 讯

《中国兽医学报》征稿简则 (封二)

[期刊基本参数]CN 22-1234/R * 1981 * m * A4 * 198 * zh * P * ¥20.00 * 1100 * 31 * 2021-10

CONTENTS

Evaluation of cellular immunity effect of F gene DNA and subunit vaccines of genotype VII Newcastle disease virus
..... LI Le, SUN Junfeng, CHEN Linna, SHI Qiankai, DI Tao, LIU Tianyi, ZHAO Ran, ZHANG Chunwei, HAN Zongxi, LIU Shengwang (1887)

Deubiquitinase inhibitor b-AP15 suppresses the replication of Marek's disease virus in chicken cells
..... YU Chong, WANG Wenjing, XIE Zhihang, ZHOU Zhengxuan, WANG Ting, FAN Qingsong, WANG Menghan, LYU Yan, XU Jiacui, AI Yongxing (1894)

Development and evaluation of a duplex fluorescence loop-mediated isothermal amplification method for distinguishing detection of virulent and non-virulent NDV
..... ZENG Tingting, XIE Liji, XIE Zhixun, LUO Sisi, LI Meng, HUANG Jiaoling, ZHANG Minxiu, ZHANG Yanfang, FAN Qing, DENG Xianwen (1902)

Fluctuant rule of antibodies and the date of initial immunization for the piglet from sows inoculated with PRRS live attenuated vaccine GAO Sheng, LI Yang, MA Zhiqian, LI Zhiwei, XU Lele, JIAO Dian, FENG Yingtong, DU Xingqian, XIAO Shuqi (1909)

Construction and identification of PCV2/PCV3 bivalent recombinant baculovirus vaccine
..... XU Peng, JIANG Yuhang, XU Wang, SONG Lina, LI Letian, CHEN Jing, HAO Pengfei, JIN Ningyi, REN Linzhu, LI Chang (1915)

Isolation and identification of Yunnan strain of bovine viral diarrhea virus-2
..... PU Haoyu, QU Kaixing, YANG Guiwei, CHENG Meiling, HUANG Bizhi, WANG Rong, REN Keqing, YIN Gefen (1922)

Establishment of a multiple PCR method for detection of main viruses causing calf diarrhea in Hebei Province
..... GAO Yatao, LI Yan, LIU Liyuan, WANG Meng, GUO Yaorui, LIU Shengli, MA Yabin, JIANG Guie, LIU Zhiyong, QIN Jianhua, ZHAO Yuelan (1930)

Epidemiological investigation and analysis on bovine enterovirus infection in Henan Province
..... QIAN Mingzhu, HU Junying, LIN Qian, SUN Hewen, WANG Weiyu, LI Xin, WANG Shenfeng, WANG Xinpeng (1937)

Role of exosomes in mediating the intercellular transmission of peste des petits ruminants virus vaccine strain N75-1
..... ZHANG Leyan, WAN Yangli, WANG Wanze, XU Qihua, MA Nange, WANG Jingyu, QI Xuefeng (1942)

Establishment and preliminary application of RT-PCR method for the detection of caprine/ovine enterovirus
..... DONG Kun, HU Junying, LI Zhuochen, CAI Menglu, ZHANG Fan, WANG Weiyu, WANG Yuguang, WANG Xinpeng (1949)

Prokaryotic expression, structural prediction and analysis of ferric binding protein A in *Bibersteinia trehalosi* from goat
..... ZHANG Shutong, TIAN Xin, HU Tianhao, SUN Xiaofeng, ZHANG Geng, CHENG Fangjun, LUO Xianmei, SONG Zhenhui, GUO Jianhua (1953)

Establishment and application of multiplex PCR method for detection of four respiratory pathogenic bacteria in rabbits
..... QIU Rulong, FAN Zhiyu, HU Bo, SONG Yanhua, WEI Houjun, CHEN Mengmeng, ZHU Weifeng, XUE Jiabin, WANG Fang (1958)

Isolation, identification and analysis of biological characteristics of pathogenic *Escherichia coli* isolated from camel
..... FAN Jiaqi, MA Weiwu, ZHOU Xuezhong (1963)

Isolation, identification and drug resistance pattern and pathogenicity of a strain of *Escherichia coli* from forest musk deer
..... ZHAO Xueliang, LI Zhe, WANG Chenxiao, WANG Juan, WANG Xinglong, DANG Ruyi, YANG Zengqi (1970)

Typing, identification and drug resistance analysis of *Salmonella* isolated from Tibet yak
..... LI Tianjiao, ZHOU Saisai, BANMA Zelang, WU Dan, LU Zibao, YIN Lihong, LYU Jiahuang, ZHAO Xiaohui, LI Xia, SUOLANG Sizhu (1976)

Effect of mast cells activation induced by foot-and-mouth disease virus-like particles on IgG immune responses in mice
..... LIU Jiahuan, CUI Chuan, ZHANG Junjuan, HAN Weijian, ZHANG Yiming, LI Limin, WANG Jiaxin (1983)

Construction and application of a rAAV-SaCas9 system expressing eGFP
..... ZHAO Yitian, LI Xiuqing, WANG Xiaofan, GAO Feng, ZHANG Kunpeng, WENG Shaoting (1990)

Effects of all-trans retinoic acid on cell cycle progression and apoptosis of C2C12 mouse myoblasts
..... LI Chengxu, MA Li, LIAN Shuai, XU Bin, LU Jingjing, LI Xinyue, LI Qianru, YANG Huanmin (1998)

Histopathological observation, isolation and identification of the pathogen in aspergillosis from Magellanic penguins
..... SONG Zhiqi, SUN Yanming, SU Lei, QU Yajin, ZHAO Wenjie, HAN Yunlin, QIN Chuan (2003)

Isolation and identification of sheep mammary epithelial cells and establishment of inflammatory model
..... XUAN Chaoying, DUAN Jinglong, LIU Maojun, MA Yuzhong (2009)

Pathological diagnosis and c-kit immunohistochemical analysis of three cases of canine cutaneous mast cell tumor
..... MA Ying,XIE Tengyi,ZHANG Jing,SHI Junchao,GAO Rui,XU Rongyi,HE Wenqi,GAO Feng, LU Huijun (2015)

Stability of aspirin eugenol ester in the artificial stomach/intestinal fluid,intestinal flora and biological samples
.....TAO Qi,QIN Zhe,BAI Lixia,LIU Xiwang,LI Shihong,YANG Yajun,LI Jianyong (2021)

Inhibiting effect of hydroxysafflor yellow A on LPS-induced inflammatory reaction of sheep endometrium cells
..... DUAN Jinglong,XUAN Chaoying,LIU Maojun,MA Yuzhong (2027)

Analysis of genome-wide SNP/InDel and identification of candidate gene for coat color in Shuangqian mutton sheep
..... LIU Zhengxi,WU Bin,HU Mingyue,BAI Chunyan,ZHAO Zhongli,CAO Yang,MA Huihai,YAN Shouqing (2032)

Expression and localization of miRNA-370 and its target genes Wnt3a and KITLG in white and brown Cashmere goat skin
..... LI Jianping,WU Sufang,LI Jianyu, XIANG Ba (2038)

Effect of extruded *Artemisia argyi* straw on growth performance,serum antioxidant and immune indexes of Hu sheep
..... HOU Peijun,ZHANG Liyang,HAN Lu,YANG Yabo,GAO Tengyun,WANG Linfeng,ZHU Heshui,FU Tong (2044)

Progress on detection methods for *Anisakis* nematodes CHEN Xiuqin,LIU Xiaolei,LIN Fengqiang,BAI Xue (2051)

Overview of infection and immune mechanisms of West Nile virus
..... SUN Jing,HE Zhan,CAI Chang,WEI Fangfang,CHENG Changyong,SONG Houhui (2059)

Research advances on prophylaxis and treatment for bovine respiratory disease complex
..... CHEN Ping,WANG Fei,HE Zhenfu,HAO Huaizhi (2064)

Research progress on formation and regulation mechanism of *Staphylococcus aureus* biofilm
..... LI Xinpu,LUO Jinyin,WU Xiaohu,LI Hongsheng,DING Xuezhi (2069)

Progress in treatment of animal kidney injury with mesenchymal stem cells
..... HE Wenlai,LI Balun,ZHANG Huimin,LIU Yundie,PENG Sha (2076)

执行主编:郭建顺 责任编辑:王铁东 英文编辑:王铁东

中国兽医学报		Chinese Journal of	
ZHONGGUO SHOUYI XUEBAO		Veterinary Science	
1981 年创刊(月刊)		Started in 1981 (Monthly)	
2021 年 10 月 15 日 第 41 卷 第 10 期(总第 298 期)		2021-10-15 Vol.41 No.10(Sum No.298)	
主管单位	中华人民共和国教育部	Management	Ministry of Education of the People's Republic of China
主办单位	吉林大学	Sponsor	Jilin University
主 编	金宁一	Editor-in-Chief	JIN Ningyi
总 编	郭建顺	Managing Editor	GUO Jianshun
编辑出版	中国兽医学报编辑部	Editor	Editorial Board on Chinese Journal of Veterinary Science
地 址	吉林省长春市西安大路 5333 号 (邮政编码 130062)	Address	5333 Xi'an Road, Changchun, Jilin, 130062, China
电 话	0431-87836534	Telephone	+86-431-87836534
印 刷	吉林省保隆冠彩印刷有限公司	Overseas	China International Book Trading Corporation (P.O.Box 399, Beijing, China)
国内发行	吉林省报刊发行局	投稿系统	http://zsyx.cbpt.cnki.net
订 购	全国各地邮政局(所)		
国外发行	中国国际图书贸易集团有限公司 (北京 399 信箱)		
电子信箱	xbcjvs@jlu.edu.cn		
中国标准连续出版物号	ISSN 1005-4545 CN 22-1234/R	发行代号	12-105(国内) 4106MO(国外)
		国内定价	20.00 元/册 240.00 元/年

Pathological diagnosis and c-kit immunohistochemical analysis of three cases of canine cutaneous mast cell tumor
..... MA Ying,XIE Tengyi,ZHANG Jing,SHI Junchao,GAO Rui,XU Rongyi,HE Wenqi,GAO Feng, LU Huijun (2015)

Stability of aspirin eugenol ester in the artificial stomach/intestinal fluid,intestinal flora and biological samples
.....TAO Qi,QIN Zhe,BAI Lixia,LIU Xiwang,LI Shihong,YANG Yajun,LI Jianyong (2021)

Inhibiting effect of hydroxysafflor yellow A on LPS-induced inflammatory reaction of sheep endometrium cells
..... DUAN Jinglong,XUAN Chaoying,LIU Maojun,MA Yuzhong (2027)

Analysis of genome-wide SNP/InDel and identification of candidate gene for coat color in Shuangqian mutton sheep
..... LIU Zhengxi,WU Bin,HU Mingyue,BAI Chunyan,ZHAO Zhongli,CAO Yang,MA Huihai,YAN Shouqing (2032)

Expression and localization of miRNA-370 and its target genes Wnt3a and KITLG in white and brown Cashmere goat skin
..... LI Jianping,WU Sufang,LI Jianyu, XIANG Ba (2038)

Effect of extruded *Artemisia argyi* straw on growth performance,serum antioxidant and immune indexes of Hu sheep
..... HOU Peijun,ZHANG Liyang,HAN Lu,YANG Yabo,GAO Tengyun,WANG Linfeng,ZHU Heshui,FU Tong (2044)

Progress on detection methods for *Anisakis* nematodes CHEN Xiuqin,LIU Xiaolei,LIN Fengqiang,BAI Xue (2051)

Overview of infection and immune mechanisms of West Nile virus
..... SUN Jing,HE Zhan,CAI Chang,WEI Fangfang,CHENG Changyong,SONG Houhui (2059)

Research advances on prophylaxis and treatment for bovine respiratory disease complex
..... CHEN Ping,WANG Fei,HE Zhenfu,HAO Huaizhi (2064)

Research progress on formation and regulation mechanism of *Staphylococcus aureus* biofilm
..... LI Xinpu,LUO Jinyin,WU Xiaohu,LI Hongsheng,DING Xuezhi (2069)

Progress in treatment of animal kidney injury with mesenchymal stem cells
..... HE Wenlai,LI Balun,ZHANG Huimin,LIU Yundie,PENG Sha (2076)

执行主编:郭建顺 责任编辑:王铁东 英文编辑:王铁东

中国兽医学报		Chinese Journal of	
ZHONGGUO SHOUYI XUEBAO		Veterinary Science	
1981 年创刊(月刊)		Started in 1981 (Monthly)	
2021 年 10 月 15 日 第 41 卷 第 10 期(总第 298 期)		2021-10-15 Vol.41 No.10(Sum No.298)	
主管单位	中华人民共和国教育部	Management	Ministry of Education of the People's Republic of China
主办单位	吉林大学	Sponsor	Jilin University
主 编	金宁一	Editor-in-Chief	JIN Ningyi
总 编	郭建顺	Managing Editor	GUO Jianshun
编辑出版	中国兽医学报编辑部	Editor	Editorial Board on Chinese Journal of Veterinary Science
地 址	吉林省长春市西安大路 5333 号 (邮政编码 130062)	Address	5333 Xi'an Road, Changchun, Jilin, 130062, China
电 话	0431-87836534	Telephone	+86-431-87836534
印 刷	吉林省保隆冠彩印刷有限公司	Overseas	China International Book Trading Corporation (P.O.Box 399, Beijing, China)
国内发行	吉林省报刊发行局	投稿系统	http://zsyx.cbpt.cnki.net
订 购	全国各地邮政局(所)		
国外发行	中国国际图书贸易集团有限公司 (北京 399 信箱)		
电子信箱	xbcjvs@jlu.edu.cn		
中国标准连续出版物号	ISSN 1005-4545 CN 22-1234/R	发行代号	12-105(国内) 4106MO(国外)
		国内定价	20.00 元/册 240.00 元/年