

全国中文核心期刊 中国科技核心期刊 中国农业核心期刊  
美国化学文摘收录期刊 RCCSE中国核心学术期刊（A）

ISSN 1671-7236  
CN 11-4843/S

中国畜牧兽医

2018年

第8期

# 中国畜牧兽医

CHINA ANIMAL HUSBANDRY &  
VETERINARY MEDICINE

第45卷 第8期  
Vol. 45 No.8

2018



主管：中华人民共和国农业部  
主办：中国农业科学院北京畜牧兽医研究所

# 中国畜牧兽医

ZHONGGUO XUMU SHOUYI

第45卷 第8期 2018年8月

## 目 次

### • 生 物 技 术 •

- CDV 强毒 BJ16B2 株 *H* 基因在昆虫杆状病毒中的表达与鉴定 ..... 陈美荣,林伟东,宋天琪,等(2041)  
陆川猪 *GPR1* 基因真核表达载体构建及组织表达谱分析 ..... 谢婉,何剑雄,夏攀洁,等(2049)  
基于 *N* 基因的小反刍兽疫病毒贵州流行株分子特征与分群研究 ..... 王军,杨源,张云丹,等(2057)  
羊源多杀性巴氏杆菌 *sodA* 基因的克隆、表达及其生物信息学分析 ..... 安琪,黄海峰,张振兴,等(2067)  
猪 *BLM* 基因 N 端、C 端的克隆及其在不同组织与疾病中的表达分析 ..... 王赛楠,许厚强,赵佳福(2076)  
犬瘟热病毒、犬细小病毒二重 TaqMan MGB 探针实时荧光定量 PCR 检测方法的建立与应用  
..... 赵雪丽,刘毅,班付国,等(2086)

- 猪瘟病毒 *E2* 基因的克隆及分子特性分析 ..... 罗丹丹,廖党金,叶勇刚(2095)  
Marc145 细胞源 *EDC3* 基因的克隆及其生物信息学分析 ..... 李昌红,温贵兰,张升波,等(2104)  
猪附红细胞体 *ENO* 基因重组腺病毒穿梭质粒的构建及真核表达 ..... 王森,倪婷婷,伍生军,等(2113)

### • 生 理 生 化 •

- 牛乳腺上皮细胞 SNAT2 对氨基酸调节乳合成的影响 ..... 孟春雨,黄鑫,刘丽杰,等(2119)  
 $\gamma$ -氨基丁酸对 LPS 介导的机体炎性反应影响的研究进展 ..... 孙士平,张成玉,李和平,等(2128)

### • 动物营养与饲料科学 •

- 木薯及其副产品的营养价值及在动物生产中的应用 ..... 崔艺燕,田志梅,李贞明,等(2135)  
真姬菇菌糠碱贮效果研究 ..... 许锦聪,苗景,何祥波,等(2147)  
22~42 日龄黑羽番鸭日粮适宜代谢能、粗蛋白质、钙和有效磷水平的研究  
..... 张玲,孙国波,段修军,等(2157)  
利用体外模拟瘤胃发酵技术预测奶牛生产性能的研究 ..... 杨金山,岳奎忠,刘鑫,等(2167)  
L-茶氨酸对氧化应激断奶仔猪生长性能及血液生化指标的影响 ..... 同峻,李泽青,王文杰,等(2175)  
屎肠球菌对 AA 肉鸡血清和肝脏抗氧化功能的影响 ..... 毛俊舟,董丽,王淑楠,等(2182)  
妊娠后期营养水平对初产母猪繁殖性能及血液生化指标的影响 ..... 陈玲,黄大鹏,魏国生(2190)  
万方数据

- 复合植物精油对脂多糖诱导的断奶仔猪免疫应激的影响 ..... 徐海旺,余魁,吴梦郡,等(2197)  
日粮中不同马齿苋青贮添加量对奶山羊泌乳性能的影响 ..... 梁琪,高占军,玉柱,等(2204)  
葡萄糖氧化酶对仔猪生长性能和血清生化指标的影响 ..... 穆淑琴,李宁,闫峻,等(2212)  
复合微生态制剂、饲用抗生素对肉鸡生长性能、肠道菌群数量和免疫性能的影响  
..... 于佳民,陈振,齐秀晔,等(2219)

## • 遗传繁育 •

- 6个绵羊群体 *BMP15*、*GDF9* 基因多态性分析 ..... 吴翠玲,宗兴龙,赵卓,等(2236)  
没食子酸对黄牛卵母细胞体外成熟的影响 ..... 黄永军,李小凤,文冬梅,等(2247)  
催乳激素对山羊脂肪酸合酶基因转录活性的影响 ..... 李君,权凯,张桂枝,等(2255)  
不同耐热性中国荷斯坦奶牛产奶量差异分析 ..... 罗汉鹏,李源韬,刘嘉莉,等(2263)  
*circRNA* 作用机制及其对动物肌肉发育的影响 ..... 谢月琴,陈婷,罗君谊,等(2270)  
添加咖啡因、亚牛磺酸对牛精子功能的影响 ..... 李晓霞,曹平华,禹学礼,等(2276)

## • 预防兽医 •

- 11种牛分枝杆菌抗原在牛结核病诊断中的初步评价 ..... 高新桃,贾红,侯绍华,等(2282)  
抗猪流行性腹泻病毒变异株卵黄抗体的制备、纯化及其活性影响因素的研究  
..... 雷丹,李安琪,罗素贤,等(2293)  
牛病毒性腹泻病毒致病机制研究进展 ..... 李新培,周伟光,关平原,等(2303)  
中药复方多糖对不同 MHC B-L $\beta$ Ⅱ基因型鸡淋巴细胞免疫信号分子表达的影响  
..... 马昭,商云霞,陈洁,等(2312)

- 流行性乙型脑炎病毒 *NS1* 基因克隆及其蛋白表达纯化 ..... 张孝忠,刘一凡,谷思颖,等(2320)

## • 基础兽医 •

- 油橄榄叶提取物对酒精性脂肪肝大鼠 PP1-DNA-PK-USF1 信号通路的干预作用 ..... 王昱,何九军(2327)  
一株牛源乡间布氏菌的分离鉴定及耐药性研究 ..... 杜琳,王丽芳,冯小慧,等(2334)  
亚洲黑熊源阴沟肠杆菌的分离鉴定及耐药性分析 ..... 栗海军,王野影,贺欣薇,等(2341)

# CHINA ANIMAL HUSBANDRY & VETERINARY MEDICINE

Vol .45 No .8 (Aug . 2018 )

## SELECTED CONTENTS

- Expression and identification of *H* gene of CDV BJ16B2 strain in insect baculovirus expression system ..... CHEN Meirong ,LIN Weidong ,SONG Tianqi ,et al(2041)
- Eukaryotic expression vector construction and tissue expression profile analysis of *GPR1* gene in Luchuan pig ..... XIE Wan ,HE Jianxiong ,XIA Panjie ,et al(2049)
- Molecular characteristics and cluster of PPRV Guizhou strains based on *N* gene ..... WANG Jun ,YANG Yuan ,ZHANG Yundan ,et al(2057)
- Cloning ,expression and bioinformatics analysis of *sodA* gene of *Pasteurella multocida* ..... AN Qi ,HUANG Haifeng ,ZHANG Zhenxing ,et al(2067)
- Cloning of N-terminal and C-terminal of pig *BLM* gene and its expression analysis in different tissues and diseases ..... WANG Sainan ,XU Houqiang ,ZHAO Jiafu(2076)
- Establishment and application of a double TaqMan MGB Real-time PCR assay for detection of canine distemper virus and canine parvovirus ..... ZHAO Xueli ,LIU Yi ,BAN Fuguo ,et al(2086)
- Cloning and molecular characterization analysis of *E2* gene of classical swine fever virus ..... LUO Dandan ,LIAO Dangjin ,YE Yonggang(2095)
- Cloning and bioinformatics analysis of *EDC3* gene from Marc145 cells ..... LI Changhong ,WEN Guilan ,ZHANG Shengbo ,et al(2104)
- Construction and eukaryotic expression of recombinant adenovirus shuttle plasmid of *Mycoplasma suis* *ENO* gene ..... WANG Miao ,NI Tingting ,WU Shengjun ,et al(2113)
- Effects of SNAT2 on amino acid-stimulated milk protein and milk fat synthesis in bovine mammary epithelial cells ..... MENG Chunyu ,HUANG Xin ,LIU Lijie ,et al(2119)
- Research progress on effect of  $\gamma$ -aminobutyric acid on LPS-mediated inflammation to the body ..... SUN Shiping ,ZHANG Chengyu ,LI Heping ,et al(2128)
- Nutritional value of cassava and its by-products and their application in animal production ..... CUI Yiyan ,TIAN Zhimei ,LI Zhenming ,et al(2135)
- Study on alkali storage effect of spent mushroom (*Hypsizygus marmoreus*) substrate ..... XU Jincong ,MIAO Jing ,HE Xiangbo ,et al(2147)

- Study on metabolizable energy ,crude protein ,Ca and available P contents in Black Muscovy ducks aged from 22 to 42 days ..... ZHANG Ling ,SUN Guobo ,DUAN Xujun ,et al(2157)
- Prediction of dairy cow production performance by *in vitro* fermentation technology ..... YANG Jinshan ,YUE Kuizhong ,LIU Xin ,et al(2167)
- Effects of L-theanine on growth performance and blood biochemical indicators of oxidative stress weaned piglets ..... YAN Jun ,LI Zeqing ,WANG Wenjie ,et al(2175)
- Effects of *Enterococcus faecium* on antioxidant function in serum and liver of Arbor Acres broilers ..... MAO Junzhou ,DONG Li ,WANG Shunan ,et al(2182)
- Effects of nutrient level during late pregnancy on reproductive performance and blood biochemical indexes of primiparous sows ..... CHEN Ling ,HUANG Dapeng ,WEI Guosheng(2190)
- The effect of compound plant essential oil on LPS-induced immune-stressed weaned pigs ..... XU Haiwang ,YU Kui ,WU Mengjun ,et al(2197)
- Effects of different addition amounts of *Portulaca oleracea* L .silage on lactation performance of dairy goats ..... LIANG Qi ,GAO Zhanjun ,YU Zhu ,et al(2204)
- Effect of glucose oxidase on growth performance and serum biochemical indexes of piglets ..... MU Shuqin ,LI Ning ,YAN Jun ,et al(2212)
- Effects of compound probiotics and antibiotics on growth performance ,intestinal flora and immune function of broilers ..... YU Jiamin ,CHE Zhen ,QI Xiuye ,et al(2219)
- Effects of dietary energy and crude protein levels on growth performance ,serum biochemical indexes and slaughter performance of graylag ..... YUAN Yingliang ,TANG Dan ,LU Ying ,et al(2227)
- Genetic polymorphism analysis of *BMP15* and *GDF9* genes in six sheep breeds ..... WU Cuiling ,ZONG Xinglong ,ZHAO Zhuo ,et al(2236)
- Effects of gallic acid on *in vitro* maturation of bovine oocytes ..... HUANG Yongjun ,LI Xiaofeng ,WEN Dongmei ,et al(2247)
- Effect of lactogenic hormones on the transcriptional activity of *FASN* gene in goats ..... LI Jun ,QUAN Kai ,ZHANG Guizhi ,et al(2255)
- Analysis of differences in milk yield of Chinese Holstein dairy cows with different heat resistance ..... LUO Hanpeng ,LI Yuantao ,LIU Jiali ,et al(2263)
- Mechanism of circRNA and its effect on development of animal muscles ..... XIE Yueqin ,CHEN Ting ,LUO Junyi ,et al(2270)

Effect of caffeine and hypotaurine on sperm function of bovine

..... LI Xiaoxia ,CAO Pinghua ,YU Xueli ,et al(2276)

Preliminary evaluation of eleven *Mycobacterium bovis* antigens in the diagnostic methods of

bovine tuberculosis ..... GAO Xintao ,JIA Hong ,HOU Shaohua ,et al(2282)

Preparation ,purification and activity factors analysis of IgY against variant of porcine epidemic

diarrhea virus ..... LEI Dan ,LI Anqi ,LUO Suxian ,et al(2293)

Research progress on pathogenesis of bovine viral diarrhoea virus

..... LI Xinpei ,ZHOU Weiguang ,GUAN Pingyuan ,et al(2303)

Effects of compound Chinese herbal medicinal polysaccharides on immune signal molecules

expression in different M HC B-L $\beta$  II genotypes chickens lymphocyte

..... MA Zhao ,SHANG Yunxia ,CHEN Jie ,et al(2312)

Cloning ,expression and purification of *NS1* gene of epidemic encephalitis type B

..... ZHANG Xiaozhong ,LIU Yifan ,GU Siying ,et al(2320)

Intervention effect of olive leaf extract on PP1-DNA-PK-USF1 signaling pathway of alcoholic

fatty liver disease rats ..... WANG Yu ,HE Jiujun(2327)

Isolation ,identification and drug resistance analysis of a bovine *Buttiauxella agrestis*

..... DU Lin ,WANG Lifang ,FENG Xiaohui ,et al(2334)

Isolation ,identification and drug resistance analysis of *Enterobacter cloacae* from Asian Black

bear (*Ursus thibetanus*) ..... SU Haijun ,WANG Yeying ,HE Xinwei ,et al(2341)