



全国中文核心期刊
中国科技核心期刊
中国科学引文数据库来源期刊

ISSN 0366-6964
CODEN CMHPAI

畜牧兽医学报

ACTA VETERINARIA ET ZOOTECHNICA SINICA

CHINESE JOURNAL
OF ANIMAL AND VETERINARY SCIENCES

Vol.53 No.6

2022

中国畜牧兽医学会

CHINESE ASSOCIATION OF ANIMAL
SCIENCE AND VETERINARY MEDICINE



畜牧兽医学报

XUMU SHOUYI XUEBAO

第 53 卷 第 6 期 2022 年 6 月

目 次

综 述

- NAD⁺/SIRT2 途径调节衰老卵母细胞成熟质量的分子机制 徐德军,赵中权,赵永聚(1657)
热休克蛋白在冷应激引起的炎症反应和氧化应激中的调节作用 郭文亮,徐元庆,金 晓,史彬林(1668)
畜禽消化道细菌群体感应及相关调控技术研究进展 郭海康,万发春,沈维军,王 祚(1678)
双组分调控系统介导革兰阴性菌耐药的作用机制 于永峰,权 衡,董文豪,邹荣华,吴晓妮,宫晓炜,陈启伟(1689)

遗传育种

- 系统分析多组织转录组鉴定影响猪脂肪沉积的关键基因 翟丽维,赵延辉,李文军,邢 凯,王楚端(1702)
lncRNA-6617 调控猪肌内前体脂肪细胞分化的筛选与功能研究 孟 珊,杨 阳,李睿霄,姬梦婷,张 娜,路 畅,
蔡春波,高鹏飞,郭晓红,曹果清,李步高(1712)
培育品系中鸡青胫性状的遗传规律分析及分子基础初探 赵 超,徐尚立,李 硕,穆继安,李方博,张瑾麒,赵敏孟,刘 龙,龚道清,耿拓宇(1723)
基于简化基因组测序的娄门鸭遗传多样性评价 刘宏祥,沈永杰,张丽华,章双杰,王 靖,朱 杰,陈瑜哲,朱春红,
宋卫涛,张 丹,陶志云,徐文娟,刘红林,李慧芳(1735)
鸡软骨细胞体外分离培养鉴定以及过表达 miR-15a 对软骨细胞的影响 张真真,李建增,蒋瑞瑞,马岩超,蔡春霞,张露洁,郭玉洁,
吉进卿,韩 露,田亚东,康相涛,韩瑞丽(1749)
线粒体 tRNA-Lys(T7719G)基因变异对绵羊产羔数的影响及遗传学分析 吕世琪,马晓菲,李 兵,贾春晖,王艳超,田树军,周荣艳,陈晓勇(1759)
SRSF10 对山羊肌内前体脂肪细胞分化的影响 刘珂含,王 永,李艳艳,王重洋,朱江江,熊 燕,李 安,林亚秋(1768)
山羊 ROR α 基因的克隆、表达载体构建及功能分析 高登科,赵泓淙,董 浩,靳亚平,陈华涛(1779)
海南黑山羊 MBL2 基因的转录调控元件的筛选与分析 王雪梅,翟 哲,陈巧玲,吴艳茹,吴昊天,黄惠娴,刘志勇,
李崇瑞,满初日嘎,王凤阳,杜 丽,陈 思(1795)

生物技术与繁殖

- 黄体期注射 PGF2 α 对母羊血清生殖激素及相关细胞因子的影响 李 宇,段春辉,宋志攀,岳思聪,王 媛,张英杰,刘月琴(1807)
氧化应激通过 Fas/FasL 信号通路调控奶牛子宫内膜细胞凋亡 靳 青,张相伦,魏 晨,刘桂芬,刘晓牧,张冬梅,谭秀文(1819)

营养与饲料

- 热应激条件下藿朴蒲苓散对育肥羔羊生长性能、消化性能和血清生化指标的影响 车大璐,程素彩,张伟涛,赵娟娟,刘爱瑜,李晓宇,周英昊,高玉红,孙新胜,李雪梅(1829)

预防兽医

- 检测产单核细胞李氏杆菌溶血素的胶体金试纸条制备及初步应用 江玲丽,高有领,胡兴娟,章先,杨云凯,魏华,方维焕(1841)
- 牛坏死杆菌的 43 ku 外膜蛋白在其黏附细胞中的作用初步分析 贺显晶,蒋凯,肖佳薇,郭东华(1849)
- 1 株多杀性巴氏杆菌的全基因组序列及致病相关基因分析 许文博,吴丽梅,刘鑫,李升,黄复深,李润成(1858)
- 细胞信号肽酶复合体亚基 1 与牛病毒性腹泻病毒复制的相关性分析 史慧君,董文丽,郭妍婷,袁圆圆,陈俊贞,杨莉,冉多良,付强(1870)
- 过表达非洲猪瘟病毒 D1133L 蛋白的 MA-104 细胞系建立及其初步应用 张婷,杨博,崔卉梅,袁兴国,赵登率,杨金柯,郝雨,陈学辉,闫文倩,申超超,史喜绢,张大俊,杨行,刘湘涛,郑海学,张克山(1877)
- 1 例兔出血症病毒 2 型感染疫情的诊断 常赵阳,刘玉梅,刘潍萁,王佳宁,位兰,张自强(1886)

基础兽医

- 两株不同 J 亚群禽白血病毒株诱发组织增生病变和细胞因子表达的比较 刘俊宏,赵月,李宏梅,王莹,王沫宇,成子强,邱建华,侯秋玲,郭慧君(1895)
- 抗菌肽 Tachyplesin I 的分子设计、结构与活性分析 孙栋,蔡寅川,蒋思雨,李璇,郝刚(1905)
- 以减毒沙门菌为载体的 SS 和 CST 双表达 DNA 疫苗经不同途径免疫犊牛的效果评价 袁婧,张欣欣,周迪,杨帅,周家彦,梁爱心,杨利国(1914)
- 免疫细胞在牦牛附睾和输精管的分布规律 张倩,崔燕,余四九,何俊峰,潘阳阳,王萌(1925)

临床兽医

- 基于蛋白组学体外分析益母草水煎液对补体和凝血级联通路相关活性因子的作用 张蒙,王伟然,冯晨,张依,张倩,穆祥(1934)
- 硫酸化党参多糖对 H₂O₂ 致 RAW264.7 细胞损伤和小鼠急性酒精损伤的保护作用 孙嘉琪,杨诗靖,谭盈,白霖,郭世宁,石达友,刘翠(1945)
- 基于网络药理学分析桑叶增强鸡抗氧化功能的作用机制 刘魏魏,张宇欣,李秀梅,王秀敏,周炜炜,戴小枫(1958)
- 低聚果糖诱导的奶牛急性蹄叶炎肝和骨骼肌中 AMPK 和 GLUT 及相关基因的变化 李岳鹏,丁嘉烽,张献颢,李帅辰,张建涛,王洪斌(1971)
- 芦荟大黄素对衰老蛋鸡卵泡氧化应激的缓解作用 胡哲炜,谢储康,陈艳琼,周烁,张才乔(1980)
- 芪英汤和子甘汤中药复方促进母猪繁殖性能和断奶仔猪生长性能的临床研究 郭大伟,侯思鲁,池宇佳,于非可,尉啸涵,邓倩,肖传明,刘晓晔,董虹(1994)

研究简报

- 北京黑猪 NR6A1、VSX2、VRTN、LTBP2 基因多态性与脊椎数及胴体性状的关联分析 牛乃琪,刘倩,侯欣华,刘欣,王立刚,赵福平,高红梅,石丽君,王立贤,张龙超(2005)
- 采用 dCas9-SunTag-DNMT3A 技术调控玻璃化冷冻牛卵母细胞 IVF 囊胚中 IGF2R 基因甲基化水平 杨莎,杨宇泽,徐茜,郝海生,杜卫华,庞云渭,赵善江,邹惠影,朱化彬,赵学明(2015)
- 猪丁型冠状病毒在悬浮培养猪肾细胞 LLC-PK1 上的增殖特性分析 李厚伟,王蕾,张先锋,胡慧,张真真,张云飞,刘林涛,姬星宇,胡永浩(2024)
- 伪狂犬病病毒变异株 gC 抗体间接 ELISA 检测方法的建立及初步应用 吴学敏,陈如敬,陈秋勇,车勇良,严山,刘玉涛,周伦江,王隆柏(2029)

ACTA VETERINARIA ET ZOOTECHNICA SINICA
CHINESE JOURNAL OF ANIMAL AND VETERINARY SCIENCES
Published Monthly :
Chinese Association of Animal Science and Veterinary Medicine
Beijing , China
Vol .53 No .6 (Jun . 2022)

CONTENTS

REVIEW

- Molecular Mechanism of NAD⁺ /SIRT2 Pathway Regulating Mature Quality of Aged Oocytes XU Dejun , ZHAO Zhongquan , ZHAO Yongju(1657)
Moderating Role of Heat Shock Protein Under Inflammatory Response and Oxidative Stress Caused by Cold Stress GUO Wenliang , XU Yuanqing , JIN Xiao , SHI Binlin (1668)
Research Progress and Related Regulation Technology on Bacterial Quorum Sensing in the Gastro -intestinal Tract of Livestock and Poultry GUO Haikang , WAN Fachun , SHEN Weijun , WANG Zuo (1678)
The Mechanism of Two-component Regulatory System Mediating Drug Resistance of Gram-negative Bacteria YU Yongfeng ,QUAN Heng ,DONG Wenhao ,ZOU Ronghua ,WU Xiaomi ,GONG Xiaowei ,CHEN Qiwei(1689)

ANIMAL GENETICS AND BREEDING

- System Analysis of Multi Tissue Transcriptome to Identify Key Genes Affecting Porcine Fat Deposition ZHAI Liwei , ZHAO Yanhui , LI Wenjun , XING Kai , WANG Chuduan(1702)
Screening and Functional Study of lncRNA-6617 Regulating Porcine Intramuscular Preadipocytes Differentiation MENG Shan , YANG Yang , LI Ruixiao , JI Mengting , ZHANG Na , LU Chang , CAI Chunbo , GAO Pengfei , GUO Xiaohong , CAO Guoqing , LI Bugao(1712)
Genetic Analysis and Molecular Basis of Black Shank Trait in Cultivated Strain of Chicken ZHAO Chao , XU Shangli , LI Shuo , MU Ji'an , LI Fangbo , ZHANG Jinqi , ZHAO Minmeng , LIU Long , GONG Daoqing , GENG Tuoyu(1723)
Genetic Diversity Evaluation of Loumen Duck Based on Reduced-Representation Genome Sequencing LIU Hongxiang , SHEN Yongjie , ZHANG Lihua , ZHANG Shuangjie , WANG Jing , ZHU Jie , CHEN Yuzhe , ZHU Chunhong , SONG Weitao , ZHANG Dan , TAO Zhiyun , XU Wenjuan , LIU Honglin , LI Huifang(1735)
Isolation , Culture and Identification of Chicken Chondrocytes and the Effect of Overexpression of miR -15a on Chondrocytes ZHANG Zhenzhen , LI Jianzeng , JIANG Ruirui , MA Yanchao , CAI Chunxia , ZHANG Lujie , GUO Yujie , JI Jingqin , HAN Lu , TIAN Yadong , KANG Xiangtao , HAN Ruili(1749)
Genetics Analysis and Effects of Mitochondrial *tRNA-Lys* (T7719G) Variation on Litter Size of Sheep LÜ Shiqi , MA Xiaofei , LI Bing , JIA Chunhui , WANG Yanchao , TIAN Shujun , ZHOU Rongyan , CHEN Xiaoyong(1759)
Effects of *SRSF10* on the Differentiation of Intramuscular Preadipocytes in Goats LIU Kehan , WANG Yong , LI Yanyan , WANG Chongyang , ZHU Jiangjiang , XIONG Yan , LI An , LIN Yaqiu(1768)
The Cloning , Expression Vector Construction and Function Analysis of Goat *RORα* Gene GAO Dengke , ZHAO Hongcong , DONG Hao , JIN Yaping , CHEN Huatao (1779)
Screening and Analysis of Transcriptional Regulatory Elements of *MBL2* Gene in Hainan Black Goat WANG Xuemei , ZHAI Zhe , CHEN Qiaoling , WU Yanru , WU Haotian , HUANG Huixian , LIU Zhiyong , LI Chongrui , MANCHU Riga , WANG Fengyang , DU Li , CHEN Si(1795)

ANIMAL BIOTECHNOLOGY AND REPRODUCTION

- Effects of PGF2 α on Reproductive Hormones and Related Cytokines during Luteal Phase in Ewes LI Yu , DUAN Chunhui , SONG Zhipan , YUE Sicong , WANG Yuan , ZHANG Yingjie , LIU Yueqin(1807)
Oxidative Stress-induced Apoptosis in Bovine Endometrial Cells is Mediated through Fas /FasL Signaling Pathway4 JIN Qing , ZHANG Xianglun , WEI Chen , LIU Guifen , LIU Xiaomu , ZHANG Dongmei , TAN Xiuwen(1819)

ANIMAL NUTRITION AND FEEDS

- Effects of Huopuling Powder on Growth Performance , Digestibility and Serum Biochemical Indexes in Fattening Lambs under Heat Stress CHE Dalu , CHENG Sucai , ZHANG Weitao , ZHAO Juanjuan , LIU Aiyu , LI Xiaoyu , ZHOU Yinghao , GAO Yuhong , SUN Xinsheng , LI Xuemei(1829)

PREVENTIVE VETERINARY MEDICINE

- Development and Primary Application of Colloidal Gold-based Test Strip for Rapid Detection of *Listeria monocytogenes* LLO JIANG Lingli , GAO Youling , HU Xingjuan , ZHANG Xian , YANG Yunkai , WEI Hua , FANG Weihuan(1841)
- Preliminary Study on the Role of 43 ku Outer Membrane Protein of *Fusobacterium necrophorum* on Its Adhesion to Cells HE Xianjing , JIANG Kai , XIAO Jiawei , GUO Donghua (1849)
- Analysis on Complete Genome Sequence and Pathogenic Genes of a *Pasteurella multocida* Strain XU Wenbo , WU Limei , LIU Xin , LI Sheng , HUANG Fushen , LI Runcheng (1858)
- Correlation Analysis of Cell Signal Peptidase Complex Subunit 1 and Bovine Viral Diarrhea Virus Replication SHI Huijun , DONG Wenli , GUO Yanting , YUAN Yuanyuan , CHEN Junzhen , YANG Li , RAN Duoliang , FU Qiang (1870)
- Establishment and Preliminary Application of MA-104 Cell Line Overexpressing African Swine Fever Virus D1133L Protein ZHANG Ting , YANG Bo , CUI Huimei , YUAN Xingguo , ZHAO Dengshuai , YANG Jinke , HAO Yu , CHEN Xuehui , YAN Wenqian , SHEN Chaochao , SHI Xijuan , ZHANG Dajun , YANG Xing , LIU Xiangtao , ZHENG Haixue , ZHANG Keshan (1877)
- Diagnosis of a Rabbit Hemorrhagic Virus Type 2 Infection Epidemic CHANG Zhaoyang , LIU Yumei , LIU Weiqi , WANG Jianing , WEI Lan , ZHANG Ziqiang (1886)

BASIC VETERINARY MEDICINE

- Comparison of Tissue Hyperplasia Lesions and Cytokines' Expressions Induced by Two Different Avian Leukosis Virus Sub-group J Strains LIU Junhong , ZHAO Yue , LI Hongmei , WANG Ying , WANG Moyu , CHENG Ziqiang , QIU Jianhua , HOU Qiuling , GUO Huijun (1895)
- Molecular Design , Structure and Activity Analysis of Antimicrobial Peptide Tachyplesin I SUN Dong , CAI Yinchuan , JIANG Siyu , LI Xuan , HAO Gang (1905)
- Evaluation of the Effect of SS and CST Dual-expression DNA Vaccines with Attenuated *Salmonella* as Carrier in Immunizing Calves through Different Routes YUAN Jing , ZHANG Xinxin , ZHOU Di , YANG Shuai , ZHOU Jiayan , LIANG Aixin , YANG Liguo (1914)
- Distribution of Immune Cells in the Epididymis and Vas Deferens of Yaks (*Bos grunniens*) ZHANG Qian , CUI Yan , YU Sijiu , HE Junfeng , PAN Yangyang , WANG Meng (1925)

CLINICAL VETERINARY MEDICINE

- The Effect of *Leonurus artemisia* Decoction on the Active Factors of Complement and Coagulation Cascade Pathway Based on Proteomics *in vitro* ZHANG Meng , WANG Weiran , FENG Chen , ZHANG Yi , ZHANG Qian , MU Xiang (1934)
- Protective Effect of Sulfated *Codonopsis pilosula* Polysaccharide on RAW 264 .7 Cell Damage Induced by H₂O₂ and Acute Alcohol Injury in Mice SUN Jiaqi , YANG Shijing , TAN Ying , BAI Lin , GUO Shining , SHI Dayou , LIU Cui (1945)
- Mechanism of Mori Folium in Improving Antioxidative Function of Chicken Based on Network Pharmacology LIU Weiwei , ZHANG Yuxin , LI Xiumei , WANG Xumin , ZHOU Weiwei , DAI Xiaofeng (1958)
- Changes of AMPK , GLUT and Related Genes in Liver and Skeletal Muscle of Dairy Cows with Acute Laminitis Induced by Oligofructose LI Yuepeng , DING Jiafeng , ZHANG Xianhao , LI Shuaichen , ZHANG Jiantao , WANG Hongbin (1971)
- Alleviating Effect of Aloe-emodin on Follicle Oxidative Stress in Aging Hens HU Zhewei , XIE Chukang , CHEN Yanqiong , ZHOU Shuo , ZHANG Caiqiao (1980)
- Clinical Research of Qiying Decoction and Zigan Decoction on Promoting Reproductive Performance of Sows and Growth Performance of Weaned Piglets GUO Dawei , HOU Silu , CHI Yujia , YU Feike , YU Xiaohan , DENG Qian , XIAO Chuanming , LIU Xiaoye , DONG Hong (1994)

RESEARCH NOTES

- Association of Polymorphisms of *NR6A1* , *VSX2* , *VRTN* , *LTBP2* Genes with Vertebral Number and Carcass Traits in Beijing Black Pigs NIU Naiqi , LIU Qian , HOU Xinhua , LIU Xin , WANG Ligang , ZHAO Fuping , GAO Hongmei , SHI Lijun , WANG Lixian , ZHANG Longchao (2005)
- The Regulation of Methylation Level of *IGF2R* Gene in IVF Blastocysts Derived from Vitrified Bovine Oocytes by dCas9-SunTag-DNMT3A Technology YANG Sha , YANG Yuze , XU Xi , HAO Haisheng , DU Weihua , PANG Yunwei , ZHAO Shanjiang , ZOU Huiying , ZHU Huabin , ZHAO Xueming (2015)
- Analysis of the Proliferation Characteristics of Porcine Deltacoronavirus on Suspension Cultured Porcine Kidney Cell LLC-PK1 LI Houwei , WANG Lei , ZHANG Xianfeng , HU Hui , ZHANG Zhenzhen , ZHANG Yunfei , LIU Lintao , JI Xingyu , HU Yonghao (2024)
- Establishment and Preliminary Application of Indirect ELISA for Detection of Variant Pseudorabies Virus gC Antibody WU Xuemin , CHEN Ruijing , CHEN Qiuyong , CHE Yongliang , YAN Shan , LIU Yutao , ZHOU Lunjiang , WANG Longbai (2029)

《畜牧兽医学报》第六届编辑委员会成员

顾问 张子仪 刘守仁 吴常信 夏咸柱 刘秀梵

主任委员 陈焕春

副主任委员 阎汉平 汪 明 苏振环 时建忠

编委成员 (按姓名英文字母/汉字笔画排序)

Chris Anderson David Lindsay Graham Gardner W.Bruce Currie

马月辉 王加启 方维焕 宁宜宝 卢德勋 朱士恩 朱兴全 刘湘涛 余锐萍

杜立新 房于明 陆承平 陈溥言 陈瑶生 李 奎 李庆章 李学伟 李德发

沙玉圣 张 涌 张仲秋 张家骅 沈建忠 杨 宁 罗绪刚 孟庆翔 郑友民

周继勇 姜 平 赵兴绪 赵茹茜 夏国良 涂长春 郭万柱 黄维义 崔治中

童光志 蒋小松 舒鼎铭

名誉主编 陈幼春 蒋金书

主编 文杰

副主编 张沅 时建忠 汪 明 杨汉春 于康震 王立贤 任 鹏

编辑部主任 孟培

主编 文杰

广告部主任 程金华 本期责任编辑 范子娟

畜牧兽医学报

(月刊,1956年创刊)

2022年 第53卷 第6期

2022年6月23日出版

ACTA VETERINARIA ET ZOO TECHNICA SINICA

(Monthly, Started in 1956)

Vol. 53 No. 6 2022

Published on Jun. 23, 2022

主 管	中国科学技术协会	Supervised by	China Association for Science and Technology
主 办	中国畜牧兽医学会	Sponsored by	Chinese Association of Animal Science and Veterinary Medicine
编 辑	《畜牧兽医学报》编委会	Edited by	Editorial Board of the ACTA VETERINARIA ET ZOO TECHNICA SINICA
地 址	中国农业科学院北京畜牧兽医研究所 北京市海淀区圆明园西路2号		Institute of Animal Science, Chinese Academy of Agricultural Sciences
邮 编	100193		No.2 West Road Yuanmingyuan, Haidian Beijing, China. Post Code 100193
电 话	010-62815987 62816996 62893836	Address	
网 址	http://www.xmsyxb.com	Telephone	010-62815987 62816996 62893836
电子邮箱	xmsyxb@263.net	Website	http://www.xmsyxb.com
出版单位	《中国畜牧兽医杂志》有限公司	E-mail	xmsyxb@263.net
印 刷	北京科信印刷有限公司	Published by	Chinese Journal of Animal Science and Veterinary Medicine Co.,Ltd
国内总发行	中国邮政集团公司北京市报刊发行局	Printed by	Beijing Kexin Printing Co.,Ltd
国外总发行	中国国际图书贸易集团有限公司 (中国国际书店) 北京399信箱	Distributed by	Domestic Beijing Post Office, China Post Group Corporation Overseas China International Book Trading Corporation, P.O.Box 399
订 购	全国各地邮局		
中国标准连续出版物号	ISSN 0366-6964 CN 11-1985/S		

国内定价:50.00元(全年 600 元)

邮发代号:82-453 国外代号:M446

广告发布登记证号:京海工商广登字20170255号