



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.44 No.7

2013

中国畜牧兽医学会

CHINESE ASSOCIATION OF ANIMAL  
SCIENCE AND VETERINARY MEDICINE

ISSN 0366-6964

07>  
9 770366 696131

# 畜牧兽医学报

## XUMU SHOUYI XUEBAO

### 第44卷 第7期 2013年7月

## 目 次

### 综述

#### 低氧适应的线粒体调控机制研究进

..... 左清清,姚 娜,董坤哲,叶绍辉,马月辉(993)

### 遗传繁育

#### 猪 BPI 基因部分 cSNPs 检测及其对蛋白结构功能的影响

..... 吴正常,王 靖,朱世平,赵乔辉,刘 璐,訾 臣,吴圣龙,包文斌(1000)

#### 整合型诱导表达猪生长激素(pGH)载体的构建及表达研究

..... 鞠辉明,白立景,姜 星,李 奎(1008)

#### Lep 和 LEPR 基因在不同脂尾型绵羊脂肪组织中的 mRNA 表达研究

..... 刘宝凤,周沙沙,王景霖,魏琳琳,乔利英,刘建华,梁 琛,刘文忠(1014)

#### 新疆野生盘羊 ISG15 基因的克隆表达

..... 鲁海富,沈 文,刘 晓,崔茹鹏,杨 文,姜方配,孙延鸣(1023)

#### 皖西白鹅换羽前后基因表达谱差异分析

..... 陈兴勇,谢珊珊,周 丽,姜润深,耿照玉(1030)

#### 褪黑素对小鼠卵母细胞氧化应激及孤雌发育的影响

..... 姜园园,张宝修,孙婧陶,李钟淑,方南洙(1037)

#### 山羊卵巢间质细胞对小腔卵泡发育的影响

..... 邱明宁,韩成全,杨忠财,刘 军,权富生,张 涌(1043)

#### 饲养层密度对兔类 ES 细胞分离培养的影响

..... 李小佳,张君涛,徐秋勤,王 鸽,曹书郡,王新庄,张志平(1051)

#### 羊驼皮肤中可溶性鸟苷酸环化酶的表达差异

..... 张俊珍,范瑞文,杨姗姗,石占全,姬凯元,董常生(1057)

#### 猪 MSTN 基因的多态性和生长性状关联分析

..... 刘晓琴,马喜山,唐中林,周 荣,杨述林,敖 红,牟玉莲,李 奎(1063)

#### 内皮素-3 对羊驼黑色素细胞特征及细胞内毛色基因表达的影响

..... 耿建军,白俊明,范瑞文,杨姗姗,庞亚妙,董常生(1070)

### 动物营养

#### 早期断奶对舍饲肉用羔羊消化器官发育的影响

..... 郭江鹏,郝正里,李发弟,马友记,潘建忠,张元兴(1078)

VB<sub>1</sub> 对育雏和育成鹅生长性能、消化酶活力、肝脏 TPK1 基因表达量的影响及相关性研究

..... 王 娴,王宝维,葛文华,张名爱,岳 斌,孟苓凤,王 迪,陈苗璐(1090)

## 预防兽医

H9N2 亚型 AIV 全基因序列分析及重组病毒 R01/NASS 气源性传播的特点

..... 魏宝之,杨 燕,胡家卿,吕 静,柴同杰(1099)

猪繁殖与呼吸综合征病毒感染细胞中非结构蛋白 Nsp2 表达分析

..... 温贵兰,张涵淞,扈鸿霞,章 先,张 肖,王晓杜,李肖梁,方维焕(1109)

PRRS 聚乳酸乙醇酸微粒 DNA 疫苗的制备及其免疫原性

..... 张 辉,王光利,韩秀英,周 磊(1117)

## 基础兽医

抗菌肽 Buforin II 衍生物对金黄色葡萄球菌细胞膜作用机制的研究

..... 郝 刚,乐国伟,施用晖(1124)

崂山奶山羊硬脂酰-CoA 去饱和酶基因(SCD)多态性及其与泌乳性状的相关分析

..... 王桂芝,王金凤,秦孜娟,王建民,赵金山,程 明,王建华(1131)

非泼罗尼纳米乳的制备及理化性质与安全性分析

..... 郭建军,欧阳五庆,李会芳,苏金辉,马志倩,李旭召,张 莹(1140)

## 临床兽医

LH/hCG 受体与 cAMP 在玉米赤霉烯酮抑制小鼠 Leydig 细胞分泌睾酮中作用的研究

..... 刘 青,王亚军,徐 辉,黄沁怡,顾建红,袁 燕,刘学忠,刘宗平,卞建春(1147)

犀角地黄汤对脂多糖复制大鼠发热模型下丘脑 IL-1 $\beta$  和 PGE<sub>2</sub> 的影响

..... 董 虹,张 涛,胡 格,姜代勋,王建舫,李 佳,穆 祥(1155)

## 研究简报

输卵管上皮细胞共培养对小鼠早期胚胎发育阻滞的影响

..... 庄利利,吴俊波,胡德宝,蔡丽娟,张 也,李钟淑,方南洙(1160)

青藏高原部分地区牦牛源沙门菌血清型及毒力基因的调查

..... 张 斌,朱晓霞,岳 华,汤 承(1167)

**ACTA VETERINARIA ET ZOO TECHNICA SINICA**  
**CHINESE JOURNAL OF ANIMAL AND VETERINARY SCIENCES**

Published Monthly:

Chinese Association of Animal Science and Veterinary Medicine  
Beijing, China

Vol. 44 No. 7 (Jul. 2013)

**CONTENTS**

**REVIEW**

HOW Mitochondria Play a Role in Hypoxic Adaptation

..... ZUO Qing-qing, YAO Na, DONG Kun-zhe, YE Shao-hui, MA Yue-hui(993)

**ANIMAL GENETICS & REPRODUCTION**

The Partial cSNPs Detection of Pig *BPI* Gene and Its Influence on Protein Structure and Function

..... WU Zheng-chang, WANG Jing, ZHU Shi-ping, ZHAO Qiao-hui, LIU Lu,  
ZI Chen, WU Sheng-long, BAO Wen-bin(1000)

Construction and Expression Study of Integrated pGH Inducible Expression Vector

..... JU Hui-ming, BAI Li-jing, JIANG Xing, LI Kui(1008)

Differential Expression of *Lep* and *LEPR* mRNA in Adipose Tissues of Sheep with Divergent Fat-tails

..... LIU Bao-feng, ZHOU Sha-sha, WANG Jing-lin, WEI Lin-lin, QIAO Li-ying,  
LIU Jian-hua, LIANG Chen, LIU Wen-zhong(1014)

Cloning and Expression of the *ISG15* Gene of Xinjiang Wild Argali

..... LU Hai-fu, SHEN Wen, LIU Kai, CUI Ru-peng, YANG Wen, JIANG Fang-pei, SUN Yan-ming(1023)

Identification of Differentially Expressed Genes in Skin of Wanxi-white Goose during Regeneration of Downy Feather

..... CHEN Xing-yong, XIE Shan-shan, ZHOU Li, JIANG Run-shen, GENG Zhao-yu(1030)

The Effect of Melatonin on the Oxidative Stress of Oocyte and Parthenogenetic Development in Mouse

..... JIANG Yuan-yuan, ZHANG Bao-xiu, SUN Jing-tao, LI Zhong-shu, FANG Nan-zhu(1037)

Effect of Ovarian Stromal Cells on Co-cultured Small Antral Follicles in the Goat

..... QIU Ming-ning, HAN Cheng-quan, YANG Zhong-cai, LIU Jun, QUAN Fu-sheng, ZHANG Yong(1043)

Effect of Densities of Feeder Layers for Isolation and Culturing of Rabbit ES-like Cells

..... LI Xiao-jia, ZHANG Jun-tao, XU Qiu-qin, WANG Ge, CAO Shu-jun,  
WANG Xin-zhuang, ZHANG Zhi-ping(1051)

The Different Expression of Soluble Guanylate Cyclase in Alpaca Skin

..... ZHANG Jun-zhen, FAN Rui-wen, YANG Shan-shan, SHI Zhan-quan,  
JI Kai-yuan, DONG Chang-sheng(1057)

Polymorphism of *MSTN* Gene and Its Association with Growth Traits in Porcine

..... LIU Xiao-qin, MA Xi-shan, TANG Zhong-lin, ZHOU Rong, YANG Shu-lin,  
AO Hong, MU Yu-lian, LI Kui(1063)

The Effects of Endothelin-3 on the Melanocyte Characteristic and Expression of Hair Color Genes in Melanocytes from Alpaca (*Lama Pacos*) *in vitro*

..... GENG Jian-jun, BAI Jun-ming, FAN Rui-wen, YANG Shan-shan,  
PANG Ya-miao, DONG Chang-sheng(1070)

## **ANIMAL NUTRITION**

Effect of Early Weaning on Development of Digestive Organs of Barn Feeding Lambs

..... GUO Jiang-peng, HAO Zheng-li, LI Fa-di, MA You-ji, PAN Jian-zhong, ZHANG Yuan-xing(1078)

Effects of Vitamin B<sub>1</sub> Level on Growth Performance, Activity of Gastrointestinal Digestive Enzymes and TPK1 Gene Expression in Liver of Brood and Finishing Geese and Study of Correlation

..... WANG Jiao, WANG Bao-wei, GE Wen-hua, ZHANG Ming-ai, YUE Bin,  
MENG Ling-feng, WANG Di, CHEN Miao-lu(1090)

## **PREVENTIVE VETERINARY MEDICINE**

Whole Genome Sequence Analysis of H9N2 AIV and the Characteristic of Airborne Transmission of the Recombinant Virus R01/NASS

..... WEI Bao-zhi, YANG Yan, HU Jia-qing, LYU Jing, CHAI Tong-jie(1099)

Analysis of Nsp2 Expression in Porcine Reproductive and Respiratory Syndrome Virus Infected Cells

..... WEN Gui-lan, ZHANG Han-song, HU Hong-xia, ZHANG Xian, ZHANG Yi,  
WANG Xiao-du, LI Xiao-liang, FANG Wei-huan(1109)

Preparation and Immunogenicity of Ploy (Lactide-Co-Glycolide) Microparticles DNA Vaccine against Porcine Reproductive and Respiratory Syndrome

..... ZHANG Hui, WANG Guang-li, HAN Xiu-ying, ZHOU Lei(1117)

## **BASIC VETERINARY MEDICINE**

The Action Mechanism of Two Analogues of the Antimicrobial Peptide Buforin II on *Staphylococcus aureus* Membrane

..... HAO Gang, LE Guo-wei, SHI Yong-hui(1124)

Association between Polymorphism of Stearoyl-CoA Desaturase Gene (SCD) and Milk Production Traits in Laoshan Dairy Goat

..... WANG Gui-zhi, WANG Jin-feng, QIN Zi-juan, WANG Jian-min,  
ZHAO Jin-shan, CHENG Ming, WANG Jian-hua(1131)

Preparation and Physical and Chemical Properties and Security Analysis of Fipronil Nanoemulsion

..... GUO Jian-jun, OUYANG Wu-qing, LI Hui-fang, SU Jin-hui, MA Zhi-qian,  
LI Xu-zhao, ZHANG Ying(1140)

## **CLINICAL VETERINARY MEDICINE**

The Role of LH/hCG Receptor and cAMP in Zearalenone Inhibiting Testosterone Secretion in Mouse Leydig Cells

..... LIU Qing, WANG Ya-jun, XU Hui, HUANG Qin-yi, GU Jian-hong, YUAN Yan,  
LIU Xue-zhong, LIU Zong-ping, BIAN Jian-chun(1147)

Effect of Xijiao Dihuang Decotion on IL-1 $\beta$  and PGE<sub>2</sub> in Lipopolysaccharide-induced Fever in Rats

..... DONG Hong, ZHANG Tao, HU Ge, JIANG Dai-xun, WANG Jian-fang, LI Jia, MU Xiang(1155)

## **RESEARCH NOTES**

Effect of Oviduct Epithelial Cells Co-culture on the Developmental Arrest of Early Embryos in Mouse

..... ZHUANG Li-li, WU Jun-bo, HU De-bao, CAI Li-juan, ZHANG Ye,  
LI Zhong-shu, FANG Nan-zhu(1160)

The Survey Study on the Serovar and Virulent Gene of Yak *Salmonella* from Some Areas of Qinghai-Tibetan Plateau

..... ZHANG Bin, ZHU Xiao-xia, YUE Hua, TANG Cheng(1167)