

Animal Science Papers and Reports
vol. 30 (2012)

No. 1

Original articles

1. Kamil OLEŃSKI, Anna CIEŚLIŃSKA, Tomasz SUCHOCKI, Joanna SZYDA, Stanisław KAMIŃSKI – Polymorphism in coding and regulatory sequences of beta-casein gene is associated with milk production traits in Holstein-Friesian cattle 5
2. Małgorzata SZEWCZUK, Sławomir ZYCH, Ewa CZERNIAWSKA-PIĄTKOWSKA, Jerzy WÓJCIK – Association between *IGF1R* / *i16* / *TaqI* and *IGF1* / *SnabI* polymorphisms and milk production traits in Polish Holstein-Friesian cows 13
3. Chun Lei ZHANG, Yanhong WANG, Hong CHEN, Xingtang FANG, Chuanwen GU – The chemokine receptor 1 gene polymorphism and its association with Somatic Cell Score and milk production traits in dairy cattle 25
4. Salvatore VELOTTO, Claudia VITALE, Antonio CRASTO – Muscle fibre types, fat deposition and fatty acid profile of Casertana *versus* Large White pig 35
5. Bronisław BORYS, Andrzej BORYS, Jolanta OPRZAŁDEK, Małgorzata PRZEGALIŃSKA-GORĄCZKOWSKA – Lipid profile of intramuscular fat in lamb meat 45
6. M.X. CHU, Z.L. PENG, H.Q. CHEN, Y.J. ZHANG, L. FANG, R. DI, G.L. CAO, T. FENG, N. LI – Polymorphism in exon 2 of *INHBB* gene and its relationship with litter size in Jining Grey goats 57
7. Ewa POŁAWSKA, Dariusz LISIAK, Artur JÓZWIK, Mariusz PIERZCHAŁA, Nina STRZAŁKOWSKA, Janusz POMIANOWSKI, Anna WÓJCIK – The effect of the diet supplementation with linseed and rapeseed on the physico-chemical and sensory characteristics of ostrich meat 65
8. Suocheng WEI, Zhuandi GONG, Wei MA, Min WEI – Effects of GnRH agonist on reproductive functions of female rabbits 73

No. 2

Original articles

1. Jolanta OPRZAŁDEK, Piotr URTNOWSKI, Grażyna SENDER, Adrianna PAWLIK, Marek ŁUKASZEWICZ – Frequency of BoLA-DRB3 alleles in Polish Holstein-Friesian cattle 91
2. Chandra Shekhar PAREEK, Mariusz PIERZCHAŁA, Joanna MICHNO, Sonia SZYMAŃSKA, Rafał SMOCZYŃSKI, Natalia JASIK, Marcin GOŁĘBIEWSKI, Jarosław TYBURSKI, Paweł URBAŃSKI, Dorota GLOUCH, Jolanta OPRZAŁDEK, Lech ZWIERZCHOWSKI, Ponsuksili SIRILUCK, Klaus WIMMERS – Gene expression profiling by cDNA-AFLP and identification of differentially expressed transcripts of bovine pituitary gland in growing bulls of dairy breeds 103

3. Xiaomu LIU, Kun ZANG, Enliang SONG, Zongshuai LING, Xiuwen TAN, Guifen LIU, Haijian CHENG, Fachun WAN – Differential gene expression of bovine intramuscular and subcutaneous preadipocytes during differentiation	121
4. Pu SHIFEI, Kong CHUISI, Liu YONGGANG – A novel pig gene, <i>CPNE1</i> , differentially expressed in the muscle tissues from Wujin pigs and Large White pigs	131
5. Jianliang WU, Jianhua LIU, Yanan YUAN, Liying QIAO, Haibo HAO, Wenzhong LIU – Polymorphism of the beta 3-adrenergic receptor gene (<i>ADRB3</i>) and its distribution in domestic and wild pigs in China	139
6. Grzegorz SMOŁUCHA, Artur GURGUL, Agata PIESTRZYŃSKA-KAJTOCH, Barbara REJDUCH – Adaptation of primer extension method for monitoring of scrapie-associated genotypes in sheep <i>PRNP</i> gene	151
7. Huiqin ZHENG, Lanhai LI, Xianglong LI, Rongyan ZHOU, Yuhong REN, Fengling XUAN, Jingjing ZHANG, Zunan SHEN, Hongbo ZHAO – Characterization and SNP identification of goat <i>TYRP1</i> gene	159
8. Lihua JIA, Ming Xing CHU, Ran DI, Guiling CAO, Tao FENG, Hongquan CHEN, Jie SUN, Li FANG – Polymorphism and structure of exon 2 of caprine melatonin receptor 1b gene and its relations to fertility and seasonal estrus	169
9. Sebastian NOWACZEWSKI, Helena KONTECKA – Haematological indices, size of erythrocytes and haemoglobin saturation in broiler chickens kept in commercial conditions	181

No. 3

Reviews

1. Joanna Beata BIERŁA, Ewa OSIŃSKA, Tomasz MOTYL – Bovine mammary stem cells studies – current status – a review	195
2. Dorota LEWCZUK, Agnieszka KORWIN-KOSSAKOWSKA – Genetic background of osteochondrosis in the horse – a review	205

Original articles

1. J. FRELICH, M. ŚLACHTA, O. HANUŠ, J. ŠPIČKA, E.SAMKOVÁ, A. WĘGLARZ, P. ZAPLETAL – Seasonal variation in fatty acid composition of cow milk in relation to the feeding system	219
2. Hamed Kharrati KOOPAEI, Mohammad Reza Mohammad ABADI, Saeid Ansari MAHYARI, Ali Esmailizadeh KOSHKOIYEH, Ali Reza Tarang, Payam POTKI – Effect of <i>DGAT1</i> variants on milk composition traits in Iranian Holstein cattle population	231
3. Artur RYBARCZYK, Marek KMIEĆ, Arkadiusz TERMAN, Roman SZARUGA – The effect of <i>CAST</i> and <i>RYR1</i> polymorphisms on carcass and meat quality traits in Pietrain crossbred pigs	241
4. X.G. YANG, X.W. WANG, E.W. ZUO, C.L HAO, S.S. LU, H.B. LIU, H.Y. XU, Y.Q. LU, K.H. LU – cDNA cloning of porcine <i>CDH1</i> and its expression profile in porcine early parthenotes	249

5. Danuta SZCZERBIŃSKA, Zofia TARASIEWICZ, Marta SULIK, Elżbieta KOPCZYŃSKA, Bogusława PYKA – Effect of the diet with common flax (<i>Linum usitatissimum</i>) and black cumin seeds (<i>Nigella sativa</i>) on quail performance and reproduction results	261
6. Xiaomei HE, Yongsheng HU, Han CAI, Ying LI, Meixia FANG, Xinzheng JIA, Qinghua NIE, Xiquan ZHANG – cDNA cloning and expression analysis of <i>ATGL</i> gene in four avian species	271
7. Abd El-Nasser, A. MOHAMMED, Mahmoud A. ABDELNABI, Jacek A. MODLIŃSKI – Evaluation of anesthesia and reproductive performance upon diazepam and xylazine injection in rats	285

No. 4

Reviews

1. Artur JÓZWIK, Józef KRZYŻEWSKI, Nina STRZAŁKOWSKA, Ewa POŁAWSKA, Emilia BAGNICKA, Agnieszka WIERZBICKA, Krzysztof NIEMCZUK, Paulina LIPIŃSKA, Jarosław O. HORBAŃCZUK – Relations between the oxidative status, <i>masitis</i> , milk quality and disorders of reproductive functions in dairy cows – a review	297
--	-----

Original articles

1. Hugo H. MONTALDO, Alejandra PELCASTRE-CRUZ – Factors affecting genetic correlation estimates from dairy sires' genetic evaluations to assess genotype-environment interaction	309
2. Kamila PUPPEL, Teresa NAŁĘCZ-TARWACKA, Beata KUCZYŃSKA, Marcin GOŁĘBIEWSKI, Henryk GRODZKI – Influence of combined supplementation of cows' diet with linseed and fish oil on the content of thrombogenic and atherogenic indicators of milk fat	317
3. Barbara KOWALIK, Jacek SKOMIAŁ, Janusz J. PAJAK, Marcin TACIAK, Małgorzata MAJEWSKA, Grzegorz BEŁZECKI – Population of ciliates, rumen fermentation indicators and biochemical parameters of blood serum in heifers fed diets supplemented with yeast (<i>Saccharomyces cerevisiae</i>) preparation	329
4. Jarosław WYRWISZ, Andrzej PÓŁTORAK, Ewa POŁAWSKA, Mariusz PIERZCHAŁA, Artur JÓZWIK, Magdalena ZALEWSKA, Robert ZAREMBA, Agnieszka WIERZBICKA – The impact of heat treatment methods on the physical properties and cooking yield of selected beef muscles from Limousine breed cattle	339
5. Edyta GAJOS, Edward DYMNIICKI – Beef production based on a suckling system as an alternative to milk production at the example of Polish Red cattle	353
6. Piotr HERBUT, Sabina ANGRECKA – Forming of temperature-humidity index (THI) and milk production of cows in the free-stall barn during the period of summer heat	363
7. Azadeh ZAHMATKESH, Hamidreza RAHMANI, Mohammad Ali EDRISS, Badraldin Ebrahim SAYED TABATABAEI – Estrogen receptor α (ER- α) gene and bovine performance: is there any relation?	373

8. Marcin SAMIEC, Maria SKRZYSZOWSKA – High developmental capability of porcine cloned embryos following trichostatin A-dependent epigenomic transformation during <i>in vitro</i> maturation of oocytes pre-exposed to R-roscovitine	383
9. Štefan MIHINA, Monika SAUTER, Zuzana PALKOVIČOVÁ, Ingrid KARANDUŠOVSKÁ , Jan BROUČEK – Concentration of harmful gases in poultry and pig houses	395

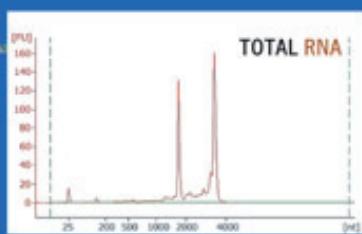
A NEW STANDARD IN RNA ISOLATION

RNAzol[®] RT*

Isolates total RNA, with mRNA
and small RNA (200-10 bases)
in separate fraction

- The single-step method without phase separation
- No DNase treatment necessary
- RNA ready for RT-PCR, microarrays
and other applications
- No need for refrigerated centrifuge
- One reagent for solid and liquid samples

THE HIGHEST YIELD AND PURITY:



www.mrcgene.com (888) 841-0900

* Piotr Chomczynski, US patent 2010

MOLECULAR RESEARCH CENTER INC.

® RNAzol is a trademark of Molecular Research Center, Inc

