

JOURNAL OF ANIMAL AND FEED SCIENCES

Vol. 13, No. 1

CONTENTS

2004

- A dynamic model of feed intake regulation in dairy cows. Model description
H. Petruzzi (Anguil, Argentina) and A. Danfær (Foulum, Denmark) 1
- A dynamic model of feed intake regulation in dairy cows. Model evaluation
H. Petruzzi (Anguil, Argentina), A. Danfær and N. Friggens (Foulum, Denmark) 25
- Single nucleotide polymorphism database of candidate genes associated with cow milk protein biosynthesis
S. Kamiński, A. Ruś (Olsztyn, Poland) and T. Malewski (Jastrzębiec, Poland) 51
- A note on cytogenetic monitoring of Polish Red cattle
E. Słota, A. Kozubska-Sobocińska, B. Danielak-Czech, B. Rejduch (Balice, Poland),
P. Kowol (Zabierzów, Poland) and A. Żyga (Balice, Poland) 65
- Performance, body nitrogen conversion and nitrogen emission from manure of dairy cows fed diets supplemented with different plant extracts
B.J. Śliwiński, M. Kreuzer (Zurich, Switzerland), F. Sutter (Lindau, Switzerland), A. Machmüller (Armidale, Australia) and H.-R. Wettstein (Zurich, Switzerland) 73
- The effect of relocation on milk removal in primiparous dairy cows reared in different rearing systems during early postnatal period
V. Tančín, M. Uhrinčat', P. Kišac, Š. Mihina, D. Tančinová, A. Hanus, D. Peškovičová and J. Brouček (Nitra, Slovak Republic) 93
- The effect of additives on quality, protein degradability, intestinal digestibility and feed intake of wilted grass silages
W. Nowak, A. Potkański and S. Wylegała (Poznań, Poland) 101
- Intraruminal administration of two doses of quebracho tannins to sheep: effect on rumen degradation and total tract digestibility, faecal recovery and toxicity
G. Hervás, P. Frutos, G. Ramos, F.J. Giráldez and A.R. Mantecón (León, Spain) 111
- The role of GABA_A receptors in the neural systems of the medial preoptic area in the control of GnRH release during the luteal phase of the oestrous cycle in ewes
D. Tomaszewska-Zaremba, K. Mateusiak and F. Przekop (Jabłonna, Poland) 121
- Change of the apparent digestibility of nutrients and phosphorus as a function of phosphorus source and phytase supplementation in pigs
J. Gundel, Á. Regius Mőcsényi, A. Hermán, H. Főbel, Sz. Huszár, M. Szelényi (Herceghalom, Hungary) and A. Szabó (Kaposvár, Hungary) 133

Effect of dietary fish and rapeseed oils on sensory and physicochemical characteristics of pig <i>M. longissimus dorsi</i> and fatty acid composition R. Kołacz, A. Korniewicz, Z. Dobrzański (Wrocław, Poland), P. Bykowski (Gdynia, Poland), D. Kołacz and D. Korniewicz (Wrocław, Poland)	143
Leptin concentration in blood and its hypothalamic binding are poorly related with amount of fat and growth rate in pigs P. Maćkowiak, K.W. Nowak, P. Kaczmarek, M. Szydłowski (Poznań, Poland), M. Kamyczek (Pawłowice, Poland), R. Eckert, M. Różycki (Balice, Poland) and M. Świtoński (Poznań, Poland)	53
Physical properties and quality traits of meat in two conservative flocks of ducks T. Kisiel and J. Książkiewicz (Kórnik, Poland)	163
Comprehensive evaluation of meat traits of ducks from two sire strains A. Mazanowski (Bydgoszcz, Poland) and J. Książkiewicz (Kórnik, Poland)	173
Conjugated linoleic acid (CLA) content and fatty acids composition of muscle in rats fed isomers of CLA and selenium M. Czauderna, J. Kowalczyk, K.M. Niedźwiedzka, I. Wąsowska and B. Pastuszewska (Jabłonna, Poland)	183
Trophoblastic vesicles as carriers of embryonic cells for mammalian cloning J.A. Modliński, G. Stefański, M. Górniewska, M. Korwin-Kossakowski (Jastrzębiec, Poland), M.A. Reed (Athens, USA), A. Guskiewicz and J. Karasiewicz (Jastrzębiec, Poland)	197
Corrigendum	205

Vol. 13, No. 2**CONTENTS****2004**

Development of pig cloning studies: past, present and future M. Samiec (Balice, Poland)	211
Morphological and physiological base of appetite regulation in the hypothalamus. A review A. Wójcik-Gładysz (Jabłonna, Poland)	239
Mutagen-induced chromosome instability in farm animals B. Danielak-Czech and E. Słota (Balice, Poland)	257
A note on the effect of caprylic acid and triacylglycerols of caprylic and capric acid on growth rate and shedding of coccidia oocysts in weaned piglets M. Marounek (Prague, Czech Republic), E. Skřivanová (Brno, Czech Republic) and V. Skřivanová (Prague, Czech Republic)	269
Effects of deoxynivalenol and degradation enzyme on growth performance and immune responses in mule ducks Y.H. Cheng (I-Lan, Taiwan), M.H. Chang (Chai-Yi, Taiwan), Y.A. Lin (I-Lan, Taiwan), J.F. Wu (Miaoli, Taiwan) and B.J. Chen (Taipei, Taiwan)	275

Effects of acidifier added to diets containing graded levels of crystalline tryptophan on growth performance, protein digestibility, and on brain serotonin level in broiler chickens
 S. Smulikowska, B. Pastuszewska, D. Tomaszewska-Zaremba, L. Buraczewska, C.V. Nguyen and A. Mieczkowska (Jabłonna, Poland)289

Effect of dietary Olympus tea (*Sideritis scardica*) supplementation on performance of chickens challenged with *Eimeria tenella*
 P. Florou-Paneri, E. Christaki, I.A. Giannenas, M. Papazahariadou, N.A. Botsoglou and A.B. Spais (Thessaloniki, Greece) 301

Study on stability of fungal phytase as poultry feed additive
 M. Karaman, Y. Gurbuz, E. Ozkose and M.S. Ekinci (Kahramanmaras, Turkey)313

A note on the prevalence of *Campylobacters* in chicken flocks in Pakistan
 S. Ejaz (Jeonju, South Korea), U. Aslam (Lahore, Pakistan) and L.C. Woong (Jeonju, South Korea)323

Effect of feeding potato tubers modified by 14-3-3 protein overexpression on metabolism and health status of rats
 I. Kosieradzka, E. Sawosz (Warsaw, Poland), B. Pastuszewska (Jabłonna, Poland), M. Żuk, J. Szopa (Wrocław, Poland) and W. Bielecki (Warsaw, Poland) 329

The effect of a high-fat diet on redox homeostasis indicators and nonspecific immunity in rats
 E. Sawosz, A. Winnicka, W. Kluciński, I. Kosieradzka (Warsaw, Poland), B. Pastuszewska (Jabłonna, Poland), M. Kleczkowski (Warsaw, Poland), J. Skomial (Jabłonna, Poland) and T. Niemiec (Warsaw, Poland) 341

Liver and body mass gain, content of conjugated linoleic acid (CLA) isomers and other fatty acids in the liver of rats fed CLA isomers and selenium
 M. Czauderna, J. Kowalczyk, K.M. Niedźwiedzka, I. Wąsowska, B. Pastuszewska (Jabłonna, Poland), E. Bulska and A. Ruszczyńska (Warsaw, Poland) 353

Editorial new and events 371

Factors inducing the activation of reconstructed oocytes of farm animals in somatic cloning procedures
 J. Jurkiewicz (Balice, Poland)373

Ammonia production, ammonia absorption, and urea recycling in ruminants. A review
 Z. Tan (Changsha, P.R. China) and M.R. Murphy (Urbana, USA)389

Age-season lactation curves for production traits of cows calving in Wielkopolska region of Poland
 T. Strabel (Poznań, Poland)405

Effects of grain sources and feeding methods, free-choice vs total mixed ration, on milk yield and composition of German Fawn x Hair crossbred goats in mid lactation S. Yurtseven and M. Görgülü (Adana, Turkey)	417
Performance, fatty acids digestibility, carcass and muscle composition of pigs fed diets enriched with vitamin E and differing in their MUFA/PUFA ratio B. Isabel, A.I. Rey, C.J. Lopez-Bote, D. Menoyo and A. Daza (Madrid, Spain)	429
The effect of arabinoxylanase and protease supplementation on nutritional value of diets containing wheat bran or rice bran in growing pig Y.-L. Yin, Z.-Y. Deng (Nanchang, P.R. China), H.-L. Huang, T.J. Li and H.-Y. Zhong (Changsha, P.R. China)	445
Apparent and standardized ileal digestibility of protein and amino acids of several field bean and pea varieties in growing pigs M. Kasprowicz and A. Frankiewicz (Poznań, Poland)	463
Effect of enzyme supplementation of white lupin (<i>Lupinus albus</i> var. <i>Butan</i>)-containing diets on performance, nutrient digestibility, viscosity, pH, and passage rate of digesta in broiler chickens A. Mieczkowska, S. Smulikowska and C.V. Nguyen (Jabłonna, Poland)	475
The effect of dietary fibre fractions from different cereals and microbial enzyme supplementation on performance, ileal viscosity and short-chain fatty acid concentrations in the caeca of broiler chickens D. Józefiak, A. Rutkowski, M. Frączek (Poznań, Poland) and D. Boros (Radzików, Poland)	487
Nutrient content of Bambara groundnut (<i>Vigna subterranea</i>) and the effects of its inclusion on the performance of growing broiler chickens and on egg production and quality F. Fru Nji, E. Niess and E. Pfeffer (Bonn, Germany)	497
A mathematical model for the feed utilization of Japanese quail S. Tarhan and M. Sezer (Tokat, Turkey)	509
Editorial news and events	519

Vol. 13, No. 4**CONTENTS****2004**

Nutritional and health functions of carbohydrate for pigs Y.-L. Yin, Z.-Y. Deng (Nanchang, P.R.China), H.-L. Huang and Z.-P. Hou (Changsha, P.R. China)	523
On the effects of deoxynivalenol (DON) in pig feed on growth performance, nutrients utilization and DON metabolism S. Dänicke, T. Goyarts, H. Valenta (Braunschweig, Germany), E. Razzazi and J. Böhm (Vienna, Austria)	539

Analysis of the calving pattern of herds in small-scale dairy systems in central Mexico
 D. Val-Arreola (Reading, United Kingdom), E. Kebreab (Guelph, Canada), J.A.N. Mills
 (Reading, United Kingdom) and J. France (Guelph, Canada)557

Effects of season and sex on voluntary dry matter intake, digestibility and performance
 of the Fiji Fantastic sheep fed native guinea grass (*Panicum maximum*) diet
 E.M. Aregheore and I. Rokomatu (Apia, Samoa)575

Modelling endogenous leucine flows at the jejunum and ileum in lambs exposed to
 the intestinal parasite *Trichostrongylus colubriformis*
 G. Holtrop, F. Yu (Bucksburn, United Kingdom), R.L. Coop (Penicuik, United Kingdom), L.A.
 Bruce, G.E. Lobley and J.C. MacRae (Bucksburn, United Kingdom)589

Plasma prolactin changes in anoestrous ewes after infusion of genistein into the third ventricle
 K. Romanowicz, T. Misztal, B. Barcikowski (Jabłonna, Poland) and A. Madej
 (Uppsala, Sweden)605

Polymorphism of intronic microsatellites in the *A-FABP* and *LEPR* genes and its association
 with productive traits in the pig
 A. Chmurzyńska, M. Maćkowski, M. Szydłowski, J. Melonek (Poznań, Poland),
 M. Kamyczek (Pawlowice, Poland), R. Eckert, M. Różycki (Balice, Poland) and
 M. Światoński (Poznań, Poland)615

Effects of probiotics and selenium combination on the immune and blood cholesterol
 concentration of pigs
 I.-T. Yu (Chunan, Taiwan), Ch.-Ch. Ju (Taipei, Taiwan), J. Lin, H.-L. Wu and H.-T. Yen
 (Chunan, Taiwan)625

Calcium from limestone meal and grit in laying hens diet - effect on performance, eggshell
 and bone quality
 J. Koreleski and S. Świątkiewicz (Balice, Poland)635

Effects of substitution of dietary protein with carbohydrate on lactation performance in
 the mink (*Mustela vison*)
 R. Fink, A.-H. Tauson, A. Chwalibog, N.E. Hansen (Frederiksberg C, Denmark), N.B.
 Kristensen (Tjle, Denmark) and S. Wamberg (Odense C, Denmark)647

Protein utilization and caecal fermentation in rats fed on wheat, barley or naked oats diets
 supplemented with β -glucanase
 M. Flis, A. Maślanek, Z. Zduńczyk and J. Juśkiewicz (Olsztyn, Poland)665

The effect of a commercial microbial phytase preparation on *in vitro* release of phosphorus
 and amino acids from selected plant feedstuffs supplemented with free amino acids
 S.M. Rutherford (Palmerston North, New Zealand), T.K. Chung (Singapore) and P.J.
 Moughan (Palmerston North, New Zealand)677

Prediction of NDF degradation characteristics of grass and grass/clover forages based on laboratory methods
 V. Koukolová, M.R. Weisbjerg, T. Hvelplund, P. Lund (Foulum, Denmark) and B. Čermák (České Budějovice, Czech Republic)691

Editorial news and events709

Author index711

Contents of Journal of Animal and Feed Sciences, Volume 13719

(Faint, illegible text from bleed-through of the reverse side of the page, including author names and titles, is present throughout the page.)