

JOURNAL OF ANIMAL AND FEED SCIENCES

AUTHOR INDEX

Volume 15

Abdullah, N., see Sieo, C.C. et al.	
Ahlstrøm, Ø. (Ås, Norway), Takson, A.-H. (Frederiksberg, Denmark), Frydendahl Hellwing, A.L., Mydland, L.T. and Skrede, A. (Ås, Norway)	
Growth performance, nitrogen balance and urinary purine derivatives in growing-furring mink (<i>Mustela vison</i>) fed bacterial protein produced from natural gas	491
Alzueta, C., see Ortiz, L.T. et al.	
Arija, I., see Ortiz, L.T. et al.	
Arpášová, H., see Petrovič, V. et al.	
Barowicz, T, see Pieszka, M. et al.	
Bartuś, M., see Pisulewski, P.M. et al.	
Bennett, R.M., Phipps, R.H. and Strange, A.M. (Reading, United Kingdom)	
The use of life cycle assessment to compare the environmental impact of production and feeding of conventional and genetically modified maize for broiler production in Argentina	71
Bertol, T.M., see Campos de, R.M.L. et al.	
Boldižárová, K., see Petrovič, V. et al.	
Boldižárová, K., see Sobeková, A. et al.	
Borowiec, F., see Sosin, E. et al.	
Brenes, A., see Ortiz, L.T. et al.	
Brzóska, F. (Balice, Poland)	
Effect of fatty acid calcium salts from linseed oil on the yield and n-3 fatty acid content of milk and on blood plasma parameters of cows	347
Budasz-Świderska, M., see Jank, M. et al.	
Bugno, M., see Pieńkowska-Schelling, A. et al.	
Buraczewska, L., Świech, E. (Jablonna, Poland) and Le Bellego, L. (Paris Cedex, France)	
Nitrogen retention and growth performance of 25 to 50 kg pigs fed diets of two protein levels and different ratios of digestible threonine to lysine	25
Campos, de, R.M.L., Hierro, E., Ordóñez, J.A. (Madrid, Spain), Bertol, T.M. (Concordia, Brazil) and de la Hoz, L. (Madrid, Spain)	
A note on partial replacement of maize with rice bran in the pig diet on meat and backfat fatty acids	427
Cerdeño, A. (León, Spain), Vieira, C. (Guijuelo-Salamanca, Spain), Serrano, E. and Mantecón, A.R. (León, Spain)	
Effect of production system on performance traits, carcass and meat quality in Brown Swiss young cattle	17

- Chae, B.J., see Kim, Y.G., et al.
- Chłopicki, S., see Pisulewski, P.M. et al.
- Chu, X.G., see Xu, Ch.L. et al.
- Cieślińska, A., see Kamiński, S. et al.
- Czauderna, M., see Korniluk, K. et al.
- Czauderna, M., see Niedźwiedzka, K.M. et al.
- Czerwiński, J. (Jabłonna, Poland), Leontowicz, H., Leonowicz, M. and Krzemiński, R. (Warsaw, Poland)
The influence of lectins isolated from pea and soyabean seeds on performance and pancreatic enzyme activity in rats
- Czerwiński, J., see Smulikowska, S., et al.
- Daza, A., Olivares, A. and López-Bote, C. (Madrid, Spain)
Effect of a moderate feed restriction on subsequent growth and body composition in pigs raised under high environmental temperatures
- de la Hoz, L., see Campos, de, R.M.L. et al.
- Diebold, G., see Sileikiene, V. et al.
- Dong, X.L., Meng, Q.X. and Xiong, Y.Q. (Beijing, P.R. China)
A comparison of buffered propionic acid and *Propionibacterium acidipropionici* as additives for high oil maize stover silage
- Dračková, M., see Třináctý, J. et al.
- Duan, Z.Y., Yan, W.J., Wu, Y.M., Ye, J.A. and Liu, J.X. (Hangzhou, P.R. China)
Comparison of gas test system based on the syringe with the reading pressure technique
- Einer-Jensen, N. see Skipor, J. and Einer-Jensen, N.
- Faix, Š., see Petrovič, V. et al.
- Fandrexewski, H., see Skiba, G. et al.
- Feng, J.M., see Shan, T. et al.
- Feng, J.M., see Xu, C.L. et al.
- Forristal, P.D., see O'Brien, M. et al.
- Franczyk, M., see Pisulewski, P.M. et al.
- Frydendahl Hellwing, A.L., see Ahlström, Ø. et al.
- Fuller, H.T., see O'Brien, M. et al.
- Gabel, M., see Krawielitzki, K. et al.
- Grešáková, Ľ. see Sobeková, A. et al.
- Hadrová, S., see Třináctý, J. et al.
- Han, L., see Liu, X. and Han, L.
- Han, X.Y., see Jiang, J.F. et al.
- Hanczakowski, P. and Szymczyk, B. (Balice, Poland)
The effect of olive or linseed oils supplemented with pure saturated fatty acids on serum cholesterol levels in rat
- Hanuš, O., see Třináctý, J. et al.
- Hierro, E., see Campos, de, R.M.L. et al.
- Ho, Y.W., see Sieo, C.C. et al.
- Holovská, K., see Sobeková, A. et al.
- Holovská, K., Jr., see Sobeková, A. et al.
- Hu, Y.L. (Zhengzhou, P.R. China), Xu, C.L., Wang, Y.Z., Li, Y.J. (Zhejiang, P.R. China), Liu, J.X. (Hangzhou, P.R. China) and Feng, J. (Zhejiang, P.R. China)
Effect of dried roots of *Astragalus membranaceus* in the diets of young growing pigs on growth performance and immune function

417

121

287

Hu, Y.L., see Xu, C.L. et al.	
Jagusia, W. (Kraków, Poland)	
Fertility measures in Polish Black-and-White cattle. 3. Phenotypic and genetic correlations between fertility measures and milk production traits	371
Jagusia, W. (Kraków, Poland)	
Fertility measures in Polish Black-and-White cattle. 4. Phenotypic and genetic correlations between fertility measures and type traits	
Jamrozik, J., see Strabel, T. and Jamrozik, J.	
Janik, A., see Pieszka, M. et al.	
Jank, M. (Warsaw, Poland), Zwierzchowski, L., Siadkowska, E. (Jastrzębiec, Poland), Budasz-Świderska, M., Sadkowski, T. (Warsaw, Poland), Oprządek, J. (Jastrzębiec, Poland) and Motyl, T. (Warsaw, Poland)	
Polymorphism in the 5'flanking region of the myostatin gene affects myostatin and TGF- β_1 expression in bovine skeletal muscle	381
Janssens, G.P.J., see Sales, J. and Janssens, G.P.J.	
Janštová, B., see Trináctý, J. et al.	
Jaszczałk, K., Malewski, T., Parada, R. (Jastrzębiec, Poland) and Malec, H. (Góra Kalwaria, Poland)	
Expression of Hoxa1 and Hoxd3 genes in chicken embryos with exencephaly	463
Javorský, P., see Sobeková, A. et al.	
Jiang, H., see Tang, S. et al.	
Jiang, J.F., Xu, Z.R., Wang, Y.Z., Han, X.Y. and Wang, L. (Hangzhou, P.R. China).	
Postnatal expression pattern of the C/EBP alpha gene in porcine subcutaneous adipose tissue	61
Jiang, Y., see Tang, S. et al.	
Jin, Z.Y., see Xu, Ch.L. et al.	
Kamiński, S., Ruśc, A. and Cieślińska, A. (Olsztyn, Poland)	
A note on frequency of A1 and A2 variants of bovine beta-casein locus in Polish Holstein bulls	195
Kamyczek, M., see Urbański, P., et al	
Kątska-Książkiewicz, L. (Balice, Poland)	
Pig embryo production by <i>in vitro</i> maturation and fertilization of ovarian oocytes	
Kim, Y.G., Lohakare, J.D. and Chae, B.J. (Kangwon, Korea)	
Growth performance, nutrient digestibility and intestinal morphology in weaned piglets fed fungal and bacterial fermented soya proteins	213
Kontecka, H., Nowaczewski, S. (Poznań, Poland), Książkiewicz, J. (Dworzyska, Poland) and Rosiński, A. (Poznań, Poland)	
The effect of supplementing feed with vitamin C on the haematological indices of ducks and their offspring	455
Koreleski, J. and Świątkiewicz, S. (Balice, Poland)	
The influence of dietary fish oil and vitamin E on the fatty acid profile and oxidative stability of frozen stored chicken breast meat	
Koreleski, J., see Świątkiewicz, S. and Koreleski, J.	
Korniluk, K., Czauderna, M., Kowalczyk, J., Mieczkowska, A., Taciak, M. (Jabłonna, Poland) and Leng, L. (Košice, Slovak Republic)	
Influence of dietary conjugated linoleic acid isomers and selenium on growth, feed efficiency, and liver fatty acid profile in rats	131

Kostogrys, R.B., see Pisulewski, P.M. et al.	
Kowalczyk, J., see Korniluk, K. et al.	
Kowalczyk, J., see Krawielitzki, K. et al.	
Kowalczyk, J., see Niedzwiedzka, K.M. et al.	
Krawielitzki, K., Schmidt, Th. (Rostock, Germany), Voigt, J. (Dummerstorf, Germany), Kowalczyk, J. (Jabłonna, Poland) and Gabel, M. (Rostock, Germany)	
Dynamics of microbial contamination of protein during ruminal <i>in situ</i> incubation of feedstuffs	313
Krzemiński, R., see Czerwiński, J. et al.	
Křížová, L., see Třináctý, J. et al.	
Książkiewicz, J., see Kontecka, H. et al.	
Kudrna, V. and Marounek, M. (Prague, Czech Republic) The influence of feeding rapeseed cake and extruded soyabean on the performance of lactating cows and the fatty acid pattern of milk	361
Kurył, J., see Urbański, P., et al	
Kwiatek, K., see Zasadny, R. and Kwiatek, K.	
Le Bellego, L., see Buraczewska, L. et al.	
Lenártová, V., see Sobeková, A. et al.	
Leng, L., see Korniluk, K. et al.	
Leng, L., see Petrovič, V. et al.	
Leng, L., see Sobeková, A. et al.	
Leonowicz, H., see Czerwiński, J. et al.	
Leonowicz, M., see Czerwiński, J. et al.	
Li, Y.J., see Xu, C.L. et al.	
Liu, J., see Shan, T. et al.	
Liu, J.X., see Duan, Z.Y. et al.	
Liu, J.X., see Wang, J.K. et al.	
Liu, J.X., see Xu, C.L. et al.	
Liu, L., see Xu, Ch.L. et al.	
Liu, L.Q., see Xu, Ch.L. et al.	
Liu, X. and Han, L. (Beijing, P.R. China) Evaluation of near-infrared reflectance spectroscopy (NIRS) for predicting chemical composition of straw silage	329
Liu, Y., see Shan, T. et al.	
Lohakare, J.D., see Kim, Y.G., et al.	
Lorkowska, B., see Pisulewski, P.M. et al.	
López-Bote, C., see Daza, A. et al.	
Magaña-Sevilla, H. and Sandoval-Castro, C.A. (Yucatán, México) Milk secretion rate in tropical dual purpose cows (<i>B. taurus</i> x <i>B. indicus</i>)	179
Malec, H., see Jaszczałk, K. et al.	
Malewski, T., see Jaszczałk, K. et al.	
Mantecón, A.R., see Cerdeño, A. et al.	
Marounek, M., see Kudrna, V. and Marounek, M.	
Männer, K. and Simon, O. (Berlin, Germany) Effectiveness of microbial phytases in diets of sows during gestation and lactation . . .	199
Mellen, M., see Petrovič, V. et al. A comparison of buffered propionic acid and Propionibacterium acidipropionici as additives for high oil maize stover silage	
Meng, Q.X., see Dong, X.L. et al.	
Meng, Q.X., see Xiong, Y.Q. et al.	

Mieczkowska, A., see Korniluk, K. et al.	
Mieczkowska, A., see Smulikowska, S., et al.	
Migdał, W., see Pieszka, M. et al.	
Misztal, T., see Wójcik-Gładysz, A. et al.	
Mosenthin, R., see Sileikiene, V. et al.	
Motyl, T., see Jank, M. et al.	
Mydland, L.T., see Ahlstrøm, Ø. et al.	
Nguyen, C.V., see Smulikowska, S., et al.	
Niedźwiedzka, K.M., Wąsowska, I., Czauderna, M., Kowalczyk, J. and Pastuszewska, B. (Jabłonna, Poland)	
The influence of dietary conjugated linoleic acid isomers and Se on the fatty acid profile in rat blood plasma and selected tissues	471
Nogowski, L., Szkułdelska, K., Szkułdelski, T. and Pruszyńska-Oszmałek, E. (Poznań, Poland)	
The effect of phytoestrogen - genistein on the hormonal and metabolic status of pregnant rats	275
Nowaczewski, S., see Koniecka, H. et al.	
O'Brien M., O'Kiely, P. (Dunsany, Ireland), Forristal, P.D. (Carlow, Ireland), and Fuller, H.T. (Dublin, Ireland)	
A note on sampling baled grass silage for fungal propagules	305
O'Kiely, P., see O'Brien, M. et al.	
Olivares, A., see Daza, A. et al.	
Oprządek, J., see Jank, M. et al.	
Ordóñez, J.A., see Campos, de, R.M.L. et al.	
Ortiz, L.T., Alzueta, C., Rebolé, A., Rodríguez, M.L., Arija, I. and Brenes, A. (Madrid, Spain)	
Effect of dietary high-oleic acid and conventional sunflower seeds and their refined oils on fatty acid composition of adipose tissue and meat in broiler chickens	83
Owczarek-Lipska, M., see Pieńkowska-Schelling, A. et al.	
Parada, R., see Jaszczałk, K. et al.	
Pastuszewska, B., see Niedźwiedzka, K.M. et al.	
Paściak, P., see Pieszka, M. et al.	
Peng, Ch.F., see Xu, Ch.L. et al.	
Petrovič, V., Boldižárová, K., Faix, Š. (Košice, Slovak Republic), Mellen, M., Arpášová, H. and Leng, L. (Nitra, Slovak Republic)	
Antioxidant and selenium status of laying hens fed with diets supplemented with selenite or Se-yeast	435
Phipps, R.H., see Bennett, R.M. et al.	
Pieńkowska-Schelling, A. (Poznań, Poland), Bugno, M. (Balice, Poland), Owczarek-Lipska, M. (Poznań, Poland), Schelling, C. (Zurich, Switzerland) and Ślota, E. (Balice, Poland)	
Probe generated by Y chromosome microdissection is useful for analysing the sex chromosomes of the domestic horse	171
Pierzchała, M., see Urbański, P., et al	
Pieszka, M. (Balice, Poland), Paściak, P. (Wojkowice Kościelne, Poland), Janik, A. (Balice, Poland), Barowicz, T., Wojtysiak, D. and Migdał, W. (Kraków, Poland)	
The effect of sex and dietary antioxidants β-carotene, vitamins C and E in a CLA-enriched diet on the lipid profile and oxidative stability of pork meat	37
Pisulewski, P.M., Franczyk, M., Kostogrys, R.B., Lorkowska, B., Bartuś, M. and Chłopicki, S. (Kraków, Poland)	
Spontaneously hypertensive rats are resistant to hyper-cholesterolaemia-induced atherosclerosis	103

Polkowska, J., see Wójcik-Gładysz, A. et al.	
Pruszyńska-Oszmałek, E., see Nogowski, L. et al.	
Raj, St., Skiba, G., Weremko, D. and Fandrejewski, H. (Jabłonna, Poland)	
Digestibility of energy and nutrients in pigs previously fed a high-fibre diet	445
Raj, St., see Skiba, G. et al.	
Rebolé, A., see Ortiz, L.T. et al.	
Rejduch, B., see Wrzeska, M. et al.	
Rodríguez, M.L., see Ortiz, L.T. et al.	
Romanowicz, K., see Wójcik-Gładysz, A. et al.	
Rosiński, A., see Kuntecka, H. et al.	
Różycki, M., see Urbański, P., et al	
Ruśc, A., see Kamiński, S. et al.	
Sadkowski, T., see Jank, M. et al.	
Sales, J. and Janssens, G.P.J. (Merelbeke, Belgium)	
A note on ash as indigestible dietary marker to determine digestibility of seeds in adult granivorous birds	97
Sandoval-Castro, C.A., see Magaña-Sevilla, H. and Sandoval-Castro, C.A.	
Schelling, C., see Pieńkowska-Schelling, A. et al.	
Schmidt, Th., see Krawielitzki, K. et al.	
Serrano, E., see Cerdeño, A. et al.	
Shan, T., Wang, Y., Liu, Y., Liu, J., Feng, J. and Xu, Z. (Hangzhou, P.R. China)	
Developmental expression of the lipoprotein lipase gene in porcine subcutaneous adipose tissue	403
Sheng, L., see Tang, S. et al.	
Siadkowska, E., see Jank, M. et al.	
Sieo, C.C., Abdullah, N., Tan, W.S. and Ho, Y.W. (Serdang, Malaysia)	
In vivo study on the persistence of transformed β -glucanase-producing <i>Lactobacillus</i> strains in the gastrointestinal tract of chickens	261
Sileikiene, V. (Kaunas, Lithuania), Diebold, G., Tafaj, M. and Mosenthin, R. (Stuttgart, Germany)	
Effects of supplementation of xylanase, phospholipase or combination of both to a wheat-based diet on digestive function in early-weaned piglets	47
Simon, O., see Männer, K. and Simon, O.	
Skiba, G., Raj, St., Weremko, D. and Fandrejewski, H. (Jabłonna, Poland)	
The compensatory response of pigs previously fed a diet with an increased fibre content.	
1. Growth rate and voluntary feed intake	393
2. Chemical body components and composition of daily gain	403
Skiba, G., Raj, St., Weremko, D. and Fandrejewski, H. (Jabłonna, Poland)	
The compensatory response of pigs previously fed a diet with an increased fibre content.	
2. Chemical body components and composition of daily gain	403
Skiba, G., see Raj, St. et al.	
Skipor, J. (Olsztyn, Poland) and Einer-Jensen, N. (Odense, Denmark)	
Local transfer of substances between the blood vessels at the base of the brain	
Skrede, A., see Ahlström, Ø. et al.	
Ślota, E., see Pieńkowska-Schelling, A. et al.	
Ślota, E., see Wrzeska, M. et al.	
Smulikowska, S., Czerwiński, J. and Mieczkowska, A. (Jabłonna, Poland)	
Nutritional value of rapeseed expeller cake for broilers: effect of dry extrusion	445
Smulikowska S., Mieczkowska, A., Czerwiński, J., Weremko, D. and Nguyen, C.V. (Jabłonna, Poland)	
Effects of exogenous phytase in chickens fed diets with differently processed rapeseed expeller cakes	237

Smulikowska, S., see Sosin, E. et al.	
Sobeková, A., Holovská, K., Lenártová, V., Holovská, K. Jr., Javorský, P., Boldižárová, K., Grešáková, L. and Leng, L. (Košice, Slovak Republic)	
Effects of feed supplemented with selenite or Se-yeast on antioxidant enzyme activities in lamb tissues	
Sosin, E. (Balice, Poland), Borowiec, F. (Kraków, Poland), Strzetelski, J. (Balice, Poland) and Smulikowska, S. (Jabłonna, Poland)	
The effect of feeding regular or low α -linolenic acid linseed on the fatty acid composition of egg yolks	
Strabel, T. (Poznań, Poland) and Jamrozik, J. (Balice, Poland)	
Approximate accuracy of dairy cattle evaluation from multiple lactation random regression model for Polish Black-and-White cattle	187
Strange, A.M., see Bennett, R.M. et al.	
Strzetelski, J., see Sosin, E. et al.	
Świątkiewicz, S., see Koreleski, J. and Świątkiewicz, S.	
Świątkiewicz, S. and Koreleski, J. (Balice, Poland)	
Effect of maize distillers dried grains with solubles and dietary enzyme supplementation on the performance of laying hens	253
Święch, E., see Buraczewska, L. et al.	
Szkudelska, K., see Nogowski, L. et al.	
Szkudelski, T., see Nogowski, L. et al.	
Szydłowski, M. (Poznań, Poland)	
Markov Chain Monte Carlo sampling on multilocus genotypes	
Szymczyk, B., see Hanczakowski, P. and Szymczyk, B.	
Taciak, M., see Korniluk, K. et al.	
Tafaj, M., see Sileikiene, V. et al.	
Takson, A.-H., see Ahlstrøm, Ø. et al.	
Tan, W.S., see Sieo, C.C. et al.	
Tan, Z., see Tang, S. et al.	
Tang, S., Tan, Z., Zhou, C., Jiang, H., Jiang, Y. and Sheng, L. (Changsha, P.R. China)	
A comparison of <i>in vitro</i> fermentation characteristics of different botanical fractions of mature maize stover	505
Třináctý, J., Křížová, L., Hadrová, S., Hanuš, O. (Pohořelice, Czech Republic), Janštová, B., Vorlová, L. and Dračková, M. (Brno, Czech Republic)	
Effect of rumen-protected protein supplemented with three amino acids on milk yield, composition and fatty acid profile in dairy cows	3
Urbański, P., Pierzchała, M. (Jastrzębiec, Poland), Kamyczek, M. (Pawłowice, Poland), Różycki, M. (Balice, Poland) and Kurył, J. (Jastrzębiec, Poland)	
Relations between the polymorphism in the coding and 5'-flanking regions of the porcine <i>MYOD1</i> and <i>MYF5</i> genes and productive traits in pigs	225
Vieira, C., see Cerdeño, A. et al.	
Voigt, J., see Krawielitzki, K. et al.	
Vorlová, L., see Třináctý, J. et al.	
Wang, J.K., Liu, J.X., Wu, Y.M. and Ye, J.A. (Hangzhou, P.R. China)	
Improvement of organic matter digestibility along with changes of physical properties of rice straw by chemical treatments	147
Wang, L., see Jiang, J.F. et al.	
Wang, L., see Xu, Ch.L. et al.	
Wang, Y., see Liu, Y., et al.	
Wang, Y., see Shan, T., et al.	
Wang, Y., see Xu, C.L. et al.	

- Wang, Y.Z., see Jiang J.F. et al.
 Wang, Y.Z., see Xu, C.L. et al.
 Wąsowska, I., see Niedźwiedzka, K.M. et al.
 Weremko, D., see Skiba, G. et al.
 Weremko, D., see Smulikowska, S. et al.
 Wojtysiak, D., see Pieszka, M. et al.
 Wójcik-Gładysz, A., Romanowicz, K., Misztal, T. and Polkowska, J. (Jabłonna, Poland)
 Oestrogen-like effect of genistein on follicle - stimulating hormone release in ovariectomized ewes
 Wrzeska, M., Źyga, A., Rejduch, B. and Ślota, E. (Balice, Poland)
 A note on biallelic expression of the *IGF2* gene in the liver and brain of adult pigs .□ 57
 Wu, Y.M., see Duan, Z.Y. et al.
 Wu, Y.M., see Wang, J.K. et al.
 Xiong, Y.Q., see Dong, X.L. et al.
 Xu, C.L., see Hu, Y.L. et al.
 Xu, C.L., Wang, Y.Z. (Zhejiang, P.R. China), Liu, J.X. (Hangzhou, P.R. China) and Feng, J. (Zhejiang, P.R. China)
 Effect of dietary bovine lactoferrin on lipid peroxidation and activities, and mRNA levels of antioxidant enzymes in piglets
 Xu, Ch.L., Peng, Ch.F., Liu, L., Wang, L., Jin, Z.Y. (WuXi, P.R. China) and Chu, X.G. (Beijing, P.R. China)
 Development of an enzyme-linked immunosorbent assay for the determination of hexoestrol
 Xu, Ch.L., Yao, H.Y., Liu, L.Q., Jin, Z.Y. and Yao, G. (Yangtze, P.R. China)
 Effects of liposomes containing exogenous recombinant porcine somatotropin on rats 159
 Xu, Z., see Shan, T. et al.
 Xu, Z.R., see Jiang, J.F. et al.
 Yan, W.J., see Duan, Z.Y. et al.
 Yang, Y.Q., see Yi, X.F. and Yang, Y.Q.
 Yao, G., see Xu, Ch.L. et al.
 Yao, H.Y., see Xu, Ch.L. et al.
 Ye, J.A., see Duan, Z.Y. et al.
 Ye, J.A., see Wang, J.K. et al.
 Yi, X.F. (Xining, P.R. China)
 Stable carbon isotope analyses show dominance of C3 grasses in the feed selected by small herbivores at the alpine meadow at the Tibetan Plateau 115
 Yi, X.F. and Yang, Y.Q. (Luoyang, P.R. China)
 Enrichment of stable carbon and nitrogen isotopes of plant populations and plateau pikas along altitudes
 Zasadny, R. and Kwiatek, K. (Puławy, Poland)
 Validation study of a new procedure for measuring insoluble impurities in animal fat .□ 337
 Zhou, C., see Tang, S. et al.
 Zwierzchowski, L., see Jank, M. et al.
 Źyga, A., see Wrzeska, M. et al.

JOURNAL OF ANIMAL AND FEED SCIENCES

Vol. 15, No. 1

CONTENTS

2006

Effect of rumen-protected protein supplemented with three amino acids on milk yield, composition and fatty acid profile in dairy cows J. Třináctý, L. Křížová, S. Hadrová, O. Hanuš (Pohořelice, Czech Republic), B. Janštová, L. Vorlová and M. Dračková (Brno, Czech Republic)	3
Effect of production system on performance traits, carcass and meat quality in Brown Swiss young cattle A. Cerdeño (León, Spain), C. Vieira (Guijuelo-Salamanca, Spain), E. Serrano and A.R. Mantecón (León, Spain)	17
Nitrogen retention and growth performance of 25 to 50 kg pigs fed diets of two protein levels and different ratios of digestible threonine to lysine L. Buraczewska, E. Świech (Jabłonna, Poland) and L. Le Bellego (Paris Cedex, France)	25
The effect of sex and dietary antioxidants β-carotene, vitamins C and E in a CLA-enriched diet on the lipid profile and oxidative stability of pork meat M. Pieszka (Balice, Poland), P. Paściak (Wojkowice Kościelne, Poland), A. Janik (Balice, Poland), T. Barowicz, D. Wojtysiak and W. Migdal (Kraków, Poland)	37
Effects of supplementation of xylanase, phospholipase or combination of both to a wheat-based diet on digestive function in early-weaned piglets V. Sileikiene (Kaunas, Lithuania), G. Diebold, M. Tafaj and R. Mosenthin (Stuttgart, Germany)	47
A note on biallelic expression of the <i>IGF2</i> gene in the liver and brain of adult pigs M. Wrzeska, A. Żyga, B. Rejduch and E. Słota (Balice, Poland)	57
Postnatal expression pattern of the C/EBP alpha gene in porcine subcutaneous adipose tissue J.F. Jiang, Z.R. Xu, Y.Z. Wang, X.Y. Han and L. Wang (Hangzhou, China)	61
The use of life cycle assessment to compare the environmental impact of production and feeding of conventional and genetically modified maize for broiler production in Argentina R.M. Bennett, R.H. Phipps and A.M. Strange (Reading, United Kingdom)	71

Effect of dietary high-oleic acid and conventional sunflower seeds and their refined oils on fatty acid composition of adipose tissue and meat in broiler chickens L.T. Ortiz, C. Alzueta, A. Rebolé, M.L. Rodríguez, I. Arija and A. Brenes (Madrid, Spain) □	83
A note on ash as indigestible dietary marker to determine digestibility of seeds in adult granivorous birds J. Sales and G.P.J. Janssens (Merelbeke, Belgium)	97
Spontaneously hypertensive rats are resistant to hyper-cholesterolaemia-induced atherosclerosis P.M. Pisulewski, M. Franczyk, R.B. Kostogrys, B. Lorkowska, M. Bartuś and S. Chłopicki (Kraków, Poland)	103
Stable carbon isotope analyses show dominance of C3 grasses in the feed selected by small herbivores at the alpine meadow at the Tibetan Plateau X.F. Yi (Xining, China)	115
Comparison of gas test system based on the syringe with the reading pressure technique Z.Y. Duan, W.J. Yan, Y.M. Wu, J.A. Ye and J.X. Liu (Hangzhou, China)	121
Influence of dietary conjugated linoleic acid isomers and selenium on growth, feed efficiency, and liver fatty acid profile in rats K. Korniluk, M. Czauderna, J. Kowalczyk, A. Mieczkowska, M. Taciak (Jabłonna, Poland) and L. Leng (Košice, Slovak Republic)	131
Improvement of organic matter digestibility along with changes of physical properties of rice straw by chemical treatments J.K. Wang, J.X. Liu, Y.M. Wu and J.A. Ye (Hangzhou, China)	147
Development of an enzyme-linked immunosorbent assay for the determination of hexoestrol Ch.L. Xu, Ch.F. Peng, L. Liu, L. Wang, Z.Y. Jin (WuXi, China) and X.G. Chu (Beijing, China) □	159

Probe generated by Y chromosome microdissection is useful for analysing the sex chromosomes of the domestic horse A. Pieńkowska-Schelling (Poznań, Poland), M. Bugno (Balice, Poland), M. Owczarek-Lipska (Poznań, Poland), C. Schelling (Zurich, Switzerland) and E. Słota (Balice, Poland)	171
Milk secretion rate in tropical dual purpose cows (<i>B. taurus</i> × <i>B. indicus</i>) H. Magaña-Sevilla and C.A. Sandoval-Castro (Yucatán, México)	179

Approximate accuracy of dairy cattle evaluation from multiple lactation random regression model for Polish Black-and-White cattle T. Strabel (Poznań, Poland) and J. Jamrozik (Balice, Poland)	187
A note on frequency of A1 and A2 variants of bovine beta-casein locus in Polish Holstein bulls S. Kamiński, A. Ruśc and A. Cieślińska (Olsztyn, Poland)	195
Effectiveness of microbial phytases in diets of sows during gestation and lactation K. Männer and O. Simon (Berlin, Germany)	199
Growth performance, nutrient digestibility and intestinal morphology in weaned piglets fed fungal and bacterial fermented soya proteins Y.G. Kim, J.D. Lohakare and B.J. Chae (Kangwon, Korea)	213
Relations between the polymorphism in the coding and 5'-flanking regions of the porcine <i>MYOD1</i> and <i>MYF5</i> genes and productive traits in pigs P. Urbański, M. Pierzchała (Jastrzębiec, Poland), M. Kamyczek (Pawłowice, Poland), M. Różyczyk (Balice, Poland) and J. Kurył (Jastrzębiec, Poland)	225
Effects of exogenous phytase in chickens fed diets with differently processed rapeseed expeller cakes S. Smulikowska, A. Mieczkowska, J. Czerwiński, D. Weremko and C.V. Nguyen (Jabłonna, Poland)	237
Effect of maize distillers dried grains with solubles and dietary enzyme supplementation on the performance of laying hens S. Świątkiewicz and J. Koreleski (Balice, Poland)	253
<i>In vivo</i> study on the persistence of transformed β -glucanase-producing <i>Lactobacillus</i> strains in the gastrointestinal tract of chickens C.C. Sieo, N. Abdullah, W.S. Tan and Y.W. Ho (Serdang, Malaysia)	261
The effect of phytoestrogen - genistein on the hormonal and metabolic status of pregnant rats L. Nogowski, K. Szkudelska, T. Szkudelski and E. Pruszyńska-Oszmałek (Poznań, Poland) □	275
The effect of olive or linseed oils supplemented with pure saturated fatty acids on serum cholesterol levels in rat P. Hanczakowski and B. Szymczyk (Balice, Poland)	287
Effects of liposomes containing exogenous recombinant porcine somatotropin on rats Ch.L. Xu, H.Y. Yao, L.Q. Liu, Z.Y. Jin and G. Yao (Yangtze, China)	295
A note on sampling baled grass silage for fungal propagules M. O'Brien, P. O'Kiely (Dunsany, Ireland), P.D. Forristal (Carlow, Ireland), and H.T. Fuller (Dublin, Ireland)	305

Dynamics of microbial contamination of protein during ruminal <i>in situ</i> incubation of feedstuffs K. Krawielitzki, Th. Schmidt (Rostock, Germany), J. Voigt (Dummerstorf, Germany), J. Kowalczyk (Jabłonna, Poland) and M. Gabel (Rostock, Germany)	313
Evaluation of near-infrared reflectance spectroscopy (NIRS) for predicting chemical composition of straw silage X. Liu and L. Han (Beijing, China)	329
Validation study of a new procedure for measuring insoluble impurities in animal fat R. Zasadny and K. Kwiatek (Puławy, Poland)	337

Vol. 15, No. 3**CONTENTS****2006**

Effect of fatty acid calcium salts from linseed oil on the yield and n-3 fatty acid content of milk and on blood plasma parameters of cows F. Brzóska (Balice, Poland)	347
The influence of feeding rapeseed cake and extruded soyabean on the performance of lactating cows and the fatty acid pattern of milk V. Kudrna and M. Marounek (Prague, Czech Republic)	361
Fertility measures in Polish Black-and-White cattle. 3. Phenotypic and genetic correlations between fertility measures and milk production traits W. Jagusiak (Kraków, Poland)	371
Polymorphism in the 5'flanking region of the myostatin gene affects myostatin and TGF- β_1 expression in bovine skeletal muscle Jank M. (Warsaw, Poland), L. Zwierzchowski, E. Siadkowska (Jastrzębiec, Poland), M. Budasz-Świderska, T. Sadkowski (Warsaw, Poland), J. Oprządek (Jastrzębiec, Poland) and T. Motyl (Warsaw, Poland)	381
The compensatory response of pigs previously fed a diet with an increased fibre content. 1. Growth rate and voluntary feed intake G. Skiba, St. Raj, D. Weremko and H. Fandrejewski (Jabłonna, Poland)	393
The compensatory response of pigs previously fed a diet with an increased fibre content. 2. Chemical body components and composition of daily gain G. Skiba, St. Raj, D. Weremko and H. Fandrejewski (Jabłonna, Poland)	403
Effect of a moderate feed restriction on subsequent growth and body composition in pigs raised under high environmental temperatures A. Daza, A. Olivares and C. López-Bote (Madrid, Spain)	417

A note on partial replacement of maize with rice bran in the pig diet on meat and backfat fatty acids R.M.L. de Campos, E. Hierro, J.A. Ordóñez (Madrid, Spain), T.M. Bertol (Concórdia, Brazil) and L. de la Hoz (Madrid, Spain)	427
Antioxidant and selenium status of laying hens fed with diets supplemented with selenite or Se-yeast V. Petrovič, K. Boldižárová, Š. Faix (Košice, Slovak Republic), M. Mellen, H. Arpášová and Ľ. Leng (Nitra, Slovak Republic)	435
Nutritional value of rapeseed expeller cake for broilers: effect of dry extrusion S. Smulikowska, J. Czerwiński and A. Mieczkowska (Jabłonna, Poland)	445
The effect of supplementing feed with vitamin C on the haematological indices of ducks and their offspring H. Kontecka, S. Nowaczewski (Poznań, Poland), J. Książkiewicz (Dworzyska, Poland) and A. Rosiński (Poznań, Poland)	455
Expression of Hoxa1 and Hoxd3 genes in chicken embryos with exencephaly K. Jaszczałk, T. Malewski, R. Parada (Jastrzębiec, Poland) and H. Malec (Góra Kalwaria, Poland) □	463
The influence of dietary conjugated linoleic acid isomers and Se on the fatty acid profile in rat blood plasma and selected tissues K.M. Niedzwiedzka, I. Wąsowska, M. Czauderna, J. Kowalczyk and B. Pastuszewska (Jabłonna, Poland)	471
Growth performance, nitrogen balance and urinary purine derivatives in growing-furring mink (<i>Mustela vison</i>) fed bacterial protein produced from natural gas Ø. Ahlstrøm (Ås, Norway), A.-H. Tauson (Frederiksberg, Denmark), A.L. Frydendahl Hellwing, L.T. Mydland and A. Skrede (Ås, Norway)	491
A comparison of <i>in vitro</i> fermentation characteristics of different botanical fractions of mature maize stover S. Tang, Z. Tan, C. Zhou, H. Jiang, Y. Jiang and L. Sheng (Changsha, P.R.China)	505
Editorial news and events	517

Vol. 15, No. 4**CONTENTS****2006**

Pig embryo production by <i>in vitro</i> maturation and fertilization of ovarian oocytes. A review L. Kątska-Książkiewicz (Balice, Poland)	
Local transfer of substances between the blood vessels at the base of the brain J. Skipor (Olsztyn, Poland) and N. Einer-Jensen (Odense, Denmark)	

Fertility measures in Polish Black-and-White cattle. 4. Phenotypic and genetic correlations between fertility measures and type traits
W. Jagusiak (Kraków, Poland)

Effects of feed supplemented with selenite or Se-yeast on antioxidant enzyme activities in lamb tissues
A. Sobeková, K. Holovská, V. Lenártová, K. Holovská Jr., P. Javorský, K. Boldižárová, L. Grešáková and L. Leng (Košice, Slovak Republic)

Oestrogen-like effect of genistein on follicle - stimulating hormone release in ovariectomized ewes
A. Wójcik-Gładysz, K. Romanowicz, T. Misztal and J. Polkowska (Jabłonna, Poland)

Digestibility of energy and nutrients in pigs previously fed a high-fibre diet
St. Raj, G. Skiba, D. Weremko and H. Fandrejewski (Jabłonna, Poland)

Effect of dried roots of *Astragalus membranaceus* in the diets of young growing pigs on growth performance and immune function
Y.L. Hu (Zhengzhou, P.R. China), C.L. Xu, Y.Z. Wang., Y.J. Li (Zhejiang, P.R. China), J.X. Liu (Hangzhou, P.R. China) and J. Feng (Zhejiang, P.R. China)

Effect of dietary bovine lactoferrin on lipid peroxidation and activities, and mRNA levels of antioxidant enzymes in piglets
C.L. Xu, Y.Z. Wang (Zhejiang, P.R. China), J.X. Liu and J. Feng (Zhejiang, P.R. China)

Developmental expression of the lipoprotein lipase gene in porcine subcutaneous adipose tissue
T. Shan, Y. Wang, Y. Liu, J. Liu, J. Feng and Z. Xu (Hangzhou, P.R. China)

The influence of dietary fish oil and vitamin E on the fatty acid profile and oxidative stability of frozen stored chicken breast meat
J. Koreleski and S. Świątkiewicz (Balice, Poland)

The effect of feeding regular or low α -linolenic acid linseed on the fatty acid composition of egg yolks
E. Sosin (Balice, Poland), F. Borowiec (Kraków, Poland), J. Strzetelski (Balice, Poland) and S. Smulikowska (Jabłonna, Poland)

The influence of lectins isolated from pea and soyabean seeds on performance and pancreatic enzyme activity in rats
J. Czerwiński (Jabłonna, Poland), H. Leontowicz, M. Leonowicz and R. Krzemiński (Warsaw, Poland)

Enrichment of stable carbon and nitrogen isotopes of plant populations and plateau pikas along altitudes
X.F. Yi and Y.Q. Yang (Luoyang, P.R. China)

A comparison of buffered propionic acid and *Propionibacterium acidipropionici* as additives for high oil maize stover silage

X.L. Dong, Q.X. Meng and Y.Q. Xiong (Beijing, P.R. China)

Markov Chain Monte Carlo sampling on multilocus genotypes

M. Szydłowski (Poznań, Poland)

Author index

Contents of Journal of Animal and feed Sciences, Volume 15

SUBSCRIPTION FOR 2007

Annual subscription rates for one volume, four issues per volume are:

Poland - 240 PLN

all other countries – 150 € including postage

Subscription payment should be made by international money order or bank transfer to:

ING Bank Śląski S.A., O/Legionowo:

IBAN: PL 29 1050 1012 1000 0005 0241 2067

SWIFT: INGBPLPW

VAT No.: PL525 000 91 05

Address: 05-120 Legionowo, 14 Handlowa Str. , Poland

Editorial, subscription and advertising office at:

The Kielanowski Institute of Animal Physiology and Nutrition,

Polish Academy of Sciences, 05-110 Jabłonna, Poland

fax: + 48 (22) 774-20-38

e-mail: office@ifzz.pan.pl; jafsed@ifzz.pan.pl

Exchange offers of journals covering related topics are welcome.

☒-----

SUBSCRIPTION ORDER FOR JOURNAL OF ANIMAL AND FEED SCIENCES

By check

Form of payment:

Bank transfer to:

ING Bank Śląski S.A.,O/Legionowo,

Account No.: PL 29 1050 1012 1000 0005 0241 2067

SWIFT: INGBPLPW

VAT No.: PL525 000 91 05

Address: 05-120 Legionowo, 14, Handlowa Str., Poland

Name

Title

Institution

.....

Address

City Code Country

Please return the order to:

The Kielanowski Institute of Animal Physiology and Nutrition, 05-110 Jabłonna, 3, Instytucka Str., Poland