

# JOURNAL OF ANIMAL AND FEED SCIENCES

## AUTHOR INDEX

### Volume 13

- Aregheore, E.M. and Rokomatu, I. (Apia, Samoa)  
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 ..... 575
- Aslam, U., see Ejaz, S. et al.
- Barcikowski, B., see Romanowicz, K. et al.
- Bielecki, W., see Kosieradzka, I. et al.
- Boros, D., see Józefiak, D. et al.
- Botsoglou, N.A., see Florou-Paneri, P. et al.
- Böhm, J., see Dänicke, S. et al.
- Brouček, J., see Tančin, V. et al.
- Bruce, L.A., see Holtrop, G. et al.
- Bulska, E., see Czauderna, M. et al.
- Buraczewska, L., see Smulikowska, S. et al.
- Bykowski, P., see Kołacz, R. et al.
- Chang, M.H., see Cheng, Y.H. et al.
- Chen, B.J., see Cheng, Y.H. et al.
- Cheng, Y.H. (I-Lan, Taiwan), Chang, M.H. (Chai-Yi, Taiwan), Lin, Y.A.  
(I-Lan, Taiwan), Wu, J.F. (Miaoili, Taiwan) and Chen, B.J. (Taipei, Taiwan)  
Effects of deoxynivalenol and degradation enzyme on growth performance and  
immune responses in mule ducks ..... 275
- Chmurzyńska, A., Maćkowski, M., Szydłowski, M., Melonek, J. (Poznań, Poland), Kamyczek, M.  
(Pawłowice, Poland), Eckert, R., Różycki, M. (Balice, Poland) and Świtoński, M. (Poznań,  
Poland)  
Polymorphism of intronic microsatellites in the *A-FABP* and *LEPR* genes and its association  
with productive traits in the pig ..... 615
- Christaki, E., see Florou-Paneri, P. et al.
- Chung, T.K., see Rutherford, S.M. et al.
- Chwalibog, A., see Fink, R. et al.
- Coop, R.L., see Holthrop, G. et al.

- Czauderna, M., Kowalczyk, J., Niedźwiedzka, K.M., Wąsowska, I. and Pastuszewska, B. (Jabłonna, Poland)  
 Conjugated linoleic acid (CLA) content and fatty acids composition of muscle in rats fed isomers of CLA and selenium ..... 183
- Czauderna, M., Kowalczyk, J., Niedźwiedzka, K.M., Wąsowska, I., Pastuszewska, B. (Jabłonna, Poland), Bulska, E. and Ruszczyńska, A. (Warsaw, Poland)  
 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 ..... 353
- Čermák, B., see Koukolová, V. et al.
- Danfær, A., see Petruzzi, H. and Danfær, A.
- Danfær, A., see Petruzzi, H. et al.
- Danielak-Czech, B. and Słota, E. (Balice, Poland)  
 Mutagen-induced chromosome instability in farm animals ..... 257
- Danielak-Czech, B., see Słota, E. et al.
- Daza, A., see Isabel, B. et al.
- Dänicke, S., Goyarts, T., Valenta, H. (Braunschweig, Germany), Razzazi, E. and Böhm, J. (Vienna, Austria)  
 On the effects of deoxynivalenol (DON) in pig feed on growth performance, nutrients utilization and DON metabolism ..... 539
- Deng, Z.-Y., see Yin, Y.-L. et al.
- Dobrzański, Z., see Kołacz, R. et al.
- Eckert, R., see Chmurzyńska, A. et al.
- Eckert, R., see Maćkowiak, P. et al.
- Ejaz, S. (Jeonju, South Korea), Aslam, U. (Lahore, Pakistan) and Woong, L.C. (Jeonju, South Korea)  
 A note on the prevalence of *Campylobacters* in chicken flocks in Pakistan ..... 323
- Ekinci, M.S., see Karaman, M. et al.
- Fébel, H., see Gundel, J. et al.
- Fink, R., Tauson, A.-H., Chwalibog, A., Hansen, N.E. (Frederiksberg C, Denmark), Kristensen, N.B. (Tjele, Denmark) and Wamberg, S. (Odense C, Denmark)  
 Effects of substitution of dietary protein with carbohydrate on lactation performance in the mink (*Mustela vison*) ..... 647
- Flis, M., Maślanek, A., Zduńczyk, Z. and Juśkiewicz, J. (Olsztyn, Poland)  
 Protein utilization and caecal fermentation in rats fed on wheat, barley or naked oats diets supplemented with  $\beta$ -glucanase ..... 665
- Flourou-Paneri, P., Christaki, E., Giannenas, I.A., Papazahariadou, M., Botsoglou, N.A. and Spais, A.B. (Thessaloniki, Greece)  
 Effect of dietary Olympus tea (*Sideritis scardica*) supplementation on performance of chickens challenged with *Eimeria tenella* ..... 301
- France, J., see Val-Arreola, D. et al.
- Frankiewicz, A., see Kasproicz, M. and Frankiewicz, A.
- Frątczak, M., see Józefiak, D. et al.
- Friggens, N., see Petruzzi, H. et al.
- Fru Nji, F., Niess, E. and Pfeffer, E. (Bonn, Germany)  
 Nutrient content of Bambara groundnut (*Vigna subterranea*) and the effects of its inclusion on the performance of growing broiler chickens and on egg production and quality ..... 497

- Frutos, P., see Hervás, G. et al.
- Giannenas, I.A., see Florou-Paneri, P. et al.
- Giráldez, F.J., see Hervás, G. et al.
- Gong, J., see Yin, Y.-L. et al.
- Goyarts, T., see Dänicke, S. et al.
- Górniewska, M., see Modliński, J.A. et al.
- Görgülü, M., see Yurtseven, S. and Görgülü, M.
- Gundel, J., Regius Mócsényi, Á., Hermán, A., Fébel, H., Huszár, Sz., Szelényi, M.  
(Herceghalom, Hungary) and Szabó, A. (Kaposvár, Hungary)  
Change of the apparent digestibility of nutrients and phosphorus as a function of phosphorus  
source and phytase supplementation in pigs ..... 133
- Gurbuz, Y., see Karaman, M. et al.
- Guszkiewicz, A., see Modliński, J.A. et al.
- Hansen, N.E., see Fink, R. et al.
- Hanus, A., see Tančin, V. et al.
- Hermán, A., see Gundel, J. et al.
- Hervás, G., Frutos, P., Ramos, G., Giráldez, F.J. and Mantecón, A.R. (León, Spain)  
Effect of intraruminal administration of quebracho tannins on rumen degradation  
and total tract digestibility, faecal recovery and toxicity in sheep ..... 111
- Holtrop, G., Yu, F. (Bucksburn, United Kingdom), Coop, R.L. (Penicuik, United Kingdom),  
Bruce, L.A., Lobley, G.E. and MacRae, J.C. (Bucksburn, United Kingdom)  
Modelling endogenous leucine flows at the jejunum and ileum in lambs exposed to the  
intestinal parasite *Trichostrongylus colubriformis* ..... 589
- Hou, Z.-P., see Yin, Y.-L. et al.
- Huang, H.-L., see Yin, Y.-L. et al.
- Huszár, Sz., see Gundel, J. et al.
- Hvelplund, T., see Koukolová, V. et al.
- Isabel, B., Rey, A.I., Lopez-Bote, C.J., Menoyo, D. and Daza, A. (Madrid, Spain)  
Performance, fatty acids digestibility, carcass and muscle composition of pigs fed diets  
enriched with vitamin E and differing in their MUFA/PUFA ratio ..... 429
- Józefiak, D., Rutkowski, A., Frątczak, M. (Poznań, Poland) and Boros, D. (Radzików,  
Poland)  
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 ..... 487
- Ju, Cl.-Ch., see Yu, I.-T. et al.
- Jurkiewicz, J. (Balice, Poland)  
Factors inducing the activation of reconstructed oocytes of farm animals in somatic  
cloning procedures ..... 373
- Juškiewicz, J., see Flis, M. et al.
- Kaczmarek, P., see Maćkowiak, P. et al.
- Kamiński, S., Ruś, A. (Olsztyn, Poland) and Malewski, T. (Jastrzębiec, Poland)  
Single nucleotide polymorphism database of candidate genes associated with cow milk  
protein biosynthesis ..... 51
- Kamyczek, M., see Chmurzyńska, A. et al.
- Kamyczek, M., see Maćkowiak, P. et al.
- Karaman, M., Gurbuz, Y., Ozkose, E. and Ekinci, M.S. (Kahramanmaraş, Turkey)  
Study on stability of fungal phytase as poultry feed additive ..... 313

- Karasiewicz, J., see Modliński, J.A. et al.
- Kasprowicz, M. and Frankiewicz, A. (Poznań, Poland)  
 Apparent and standardized ileal digestibility of protein and amino acids of several field  
 bean and pea varieties in growing pigs ..... 445
- Kebreab, E., see Val-Arreola, D. et al.
- Kisiel, T. and Książkiewicz, J. (Dworzyska, Poland)  
 Physical properties and quality traits of meat in two conservative flocks of ducks ..... 163
- Kišac, P., see Tančin, V. et al.
- Kleczkowski, M., see Sawosz, E. et al.
- Kluciński, W., see Sawosz, E. et al.
- Kołac, D., see Kołac, R. et al.
- Kołac, R., Korniewicz, A., Dobrzański, Z. (Wrocław, Poland), Bykowski, P. (Gdynia,  
 Poland), Kołac, D. and Korniewicz, D. (Wrocław, Poland)  
 Effect of dietary fish and rapeseed oils on sensory and physicochemical characteristics  
 of pig *M. longissimus dorsi* and fatty acid composition ..... 143
- Koreleski, J. and Świątkiewicz, S. (Balice, Poland)  
 Calcium from limestone meal and grit in laying hens diet - effect on performance,  
 eggshell and bone quality ..... 635
- Korniewicz, A., see Kołac, R. et al.
- Korniewicz, D., see Kołac, R. et al.
- Korwin-Kossakowski, M., see Modliński, J.A. et al.
- Kosieradzka, I., Sawosz, E. (Warsaw, Poland), Pastuszewska, B. (Jabłonna, Poland), Żuk, M.,  
 Szopa, J. (Wrocław, Poland) and Bielecki, W. (Warsaw, Poland)  
 Effect of feeding potato tubers modified by 14-3-3 protein overexpression on metabolism  
 and health status of rats ..... 329
- Kosieradzka, I., see Sawosz, E. et al.
- Koukolová, V., Weisbjerg, M.R., Hvelplund, T., Lund, P. (Foulum, Denmark) and  
 Čermák, B. (České Budějovice, Czech Republic)  
 Prediction of NDF degradation characteristics of grass and grass/clover forages based  
 on laboratory methods ..... 691
- Kowalczyk, J., see Czauderna, M. et al.
- Kowol, P., see Słota, E. et al.
- Kozubská-Sobocińska, A., see Słota, E. et al.
- Kreuzer, M., see Śliwiński, B.J. et al.
- Kristensen, N.B., see Fink, R. et al.
- Książkiewicz, J., see Kisiel, T. and Książkiewicz, J.
- Książkiewicz, J., see Mazanowski, A. and Książkiewicz, J.
- Li, T.J., see Yin, Y.-L. et al.
- Lim, C.W., see Ejaz, S. et al.
- Lin, J., see Yu, I.-T. et al.
- Lin, Q., see Yin, Y.-L. et al.
- Lin, Y.A., see Cheng, Y.H. et al.
- Lobley, G.E., see Holtrop, G. et al.
- Lopez-Bote, C.J., see Isabel, B. et al.
- Lund, P., see Koukolová, V. et al.
- Machmüller, A., see Śliwiński, B.J. et al.
- MacRae, J.C., see Holtrop, G. et al.

- Maćkowiak, P., Nowak, K.W., Kaczmarek, P., Szydlowski, M. (Poznań, Poland),  
Kamyczek, M. (Pawlowice, Poland), Eckert, R., Różycki, M. (Balice, Poland)  
and Świtoński, M. (Poznań, Poland)  
Leptin concentration in blood and its hypothalamic binding are poorly related with  
amount of fat and growth rate in pigs ..... 153
- Madej, A., see Romanowicz, K. et al.
- Malewski, T., see Kamiński, S. et al.
- Mantecón, A.R., see Hervás, G. et al.
- Marounek, M., Skřivanová, E. and Skřivanová, V. (Praha, Czech Republic)  
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 ..... 269
- Maślanek, A., see Flis, M. et al.
- Mateusiak, K., see Tomaszewska-Zaremba, D.
- Mazanowski, A. and Książkiewicz, J. (Dworzyska, Poland)  
Comprehensive evaluation of meat traits of ducks from two sire strains ..... 173
- Melonek, J., see Chmurzyńska, A. et al.
- Menoyo, D., see Isabel, B. et al.
- Mieczkowska, A., Smulikowska, S. and Nguyen, C.V. (Jabłonna, Poland)  
Effect of enzyme supplementation of white lupin (*Lupinus albus* var. *Butan*)-containing  
diets on performance, nutrient digestibility, viscosity, pH, and passage rate of digesta in  
broiler chickens ..... 475
- Mieczkowska, A., see Smulikowska, S. et al.
- Mihina, Š., see Tančin, V. et al.
- Mills, J.A.N., see Val-Arreola, D. et al.
- Miształ, T., see Romanowicz, K. et al.
- Modliński, J.A., Stefański, G., Górniewska, M., Korwin-Kossakowski, M. (Jastrzębiec,  
Poland), Reed, M.A. (Athens, USA), Guskiewicz, A. and Karasiewicz, J. (Jastrzębiec, Poland)  
Trophoblastic vesicles as carriers of embryonic cells for mammalian cloning ..... 197
- Moughan, P.J., see Rutherford, S.M. et al.
- Murphy, M.R., see Tan, Z. and Murphy, M.R.
- Nguyen, C.V., see Mieczkowska, A. et al.
- Nguyen, C.V., see Smulikowska, S. et al.
- Niedźwiedzka, K.M., see Czauderna, M. et al.
- Niemiec, T., see Sawosz, E. et al.
- Niess, E., see Fru Nji, F. et al.
- Nowak, K.W., see Maćkowiak, P. et al.
- Nowak, W., Potkański, A. and Wylegała, S. (Poznań, Poland)  
The effect of additives on quality, protein degradability, intestinal digestibility and  
feed intake of wilted grass silages ..... 101
- Ozkose, E., see Maćkowiak, P. et al.
- Papazahariadou, M., see Florou-Paneri, P. et al.
- Pastuszewska, B., see Czauderna, M. et al.
- Pastuszewska, B., see Kosieradzka, I. et al.
- Pastuszewska, B., see Sawosz, E. et al.
- Pastuszewska, B., see Smulikowska, S. et al.
- Peškovičová, D., see Tančin, V. et al.
- Petruzzi, H. (Anguil, Argentina) and Danfær, A. (Foulum, Denmark)  
A dynamic model of feed intake regulation in dairy cows. Model description ..... 1

- Petruzzi, H. (Anguil, Argentina), Danfær, A. and Friggens, N. (Foulum, Denmark)  
 A dynamic model of feed intake regulation in dairy cows. Model evaluation ..... 25
- Pfeffer, E., see Fru Nji, F. et al.
- Potkański, A., see Nowak, W. et al.
- Przekop, F., see Tomaszewska-Zaremba, D.
- Ramos, G., see Hervás, G. et al.
- Razzazi, E., see Dänicke, S. et al.
- Reed, M.A., see Modliński, J.A. et al.
- Regius Mócsényi, Á., see Gundel, J. et al.
- Rejduch, B., see Słota, E. et al.
- Rey, A.I., see Isabel, B. et al.
- Rokomatu, I., see Aregheore, E.M. and Rokomatu, I.
- Romanowicz, K., Misztal, T., [Barcikowski, B.](Jabłonna, Poland) and Madec, A. (Uppsala, Sweden)  
 Plasma prolactin changes in anoestrous ewes after infusion of genistein into the third ventricle ... 605
- Rózycki, M., see Chmurzyńska, A. et al.
- Rózycki, M., see Maćkowiak, P. et al.
- Ruszczynska, A., see Czauderna, M. et al.
- Ruś, A., see Kamiński, S. et al.
- Rutherford, S.M. (Palmerston North, New Zealand), Chung, T.K. (Singapore)  
 and Moughan, P.J. (Palmerston North, New Zealand)  
 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 ..... 677
- Rutkowski, A., see Józefiak, D. et al.
- Samiec, M. (Balice, Poland)  
 Development of pig cloning studies: past, present and future ..... 211
- Sawosz, E., see Kosieradzka, I. et al.
- Sawosz, E., Winnicka, A., Kluciński, W., Kosieradzka, I. (Warsaw, Poland), Pastuszewska, B.  
 (Jabłonna, Poland), Kleczkowski, M. (Warsaw, Poland), Skomiał, J. (Jabłonna, Poland)  
 and Niemiec, T. (Warsaw, Poland)  
 The effect of a high-fat diet on redox homeostasis indicators and nonspecific  
 immunity in rats ..... 341
- Sezer, M., see Tarhan, S. and Sezer, M.
- Skomiał, J., see Sawosz, E. et al.
- Skřivanová, E., see Marounek, M. et al.
- Skřivanová, V., see Marounek, M. et al.
- Słota, E., see Danielak-Czech, B. and Słota, E.
- Słota, E., Kozubska-Sobocińska, A., Danielak-Czech, B., Rejduch, B. (Balice, Poland),  
 Kowol, P. (Zabierzów, Poland) and Żyga, A. (Balice, Poland)  
 Cytogenetic monitoring of Polish Red cattle ..... 65
- Smulikowska, S., see Mieczkowska, A. et al.
- Smulikowska, S., Pastuszewska, B., Tomaszewska-Zaremba, D., Buraczewska, L., Nguyen,  
 C.V. and Mieczkowska, A. (Jabłonna, Poland)  
 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 .... 289
- Spais, A.B., see Florou-Paneri, P. et al.
- Stefański, G., see Modliński, J.A. et al.

- Strabel, T. (Poznań, Poland)  
 Age-season lactation curves for production traits of cows calving in Wielkopolska region of Poland ..... 405
- Sutler, F., see Śliwiński, B.J. et al.
- Szabó, A., see Gundel, J. et al.
- Szelényi, M., see Gundel, J. et al.
- Szopa, J., see Kosieradzka, I. et al.
- Szydłowski, M., see Chmurzyńska, A. et al.
- Szydłowski, M., see Maćkowiak, P. et al.
- Śliwiński, B.J., Kreuzer, M., Sutter, F., Machmüller, A. and Wettstein, H.-R. (Zurich, Switzerland)  
 Performance, body nitrogen conversion and nitrogen emission from manure of dairy cows fed diets supplemented with different plant extracts ..... 73
- Świątkiewicz, S., see Koreleski, J. and Świątkiewicz, S.
- Świtoński, M., see Chmurzyńska, A. et al.
- Świtoński, M., see Maćkowiak, P. et al.
- Tan, Z. (Changsha, P.R. China) and Murphy, M.R. (Urbana, USA)  
 Ammonia production, ammonia absorption, and urea recycling in ruminants.  
 A review ..... 389
- Tančin, V., Uhrinčat', M., Kišac, P., Mihina, Š., Tančinová, D., Hanus, A., Peškovičová, D. and Brouček, J. (Nitra, Slovak Republic)  
 The effect of relocation on milk removal in primiparous dairy cows reared in different rearing systems during early postnatal period ..... 93
- Tančinová, D., see Tančin, V. et al.
- Tarhan, S. and Sezer, M. (Tokat, Turkey)  
 A mathematical model for the feed utilization of Japanese quail ..... 509
- Tauson, A.-H., see Fink, R. et al.
- Tomaszewska-Zaremba, D., Mateusiak, K. and Przekop, F. (Jabłonna, Poland)  
 The role of GABA<sub>A</sub> 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 ..... 121
- Tomaszewska-Zaremba, D., see Smulikowska, S. et al.
- Uhrinčat', M., see Tančin, V. et al.
- Val-Arreola, D. (Reading, United Kingdom), Kebreab, E. (Guelph, Canada), Mills, J.A.N. (Reading, United Kingdom) and France, J. (Guelph, Canada)  
 Analysis of the calving pattern of herds in small-scale dairy systems in central Mexico ... 557
- Valenta, H., see Dänicke, S. et al.
- Wamberg, S., see Fink, R. et al.
- Wąsowska, I., see Czauderna, M. et al.
- Weisbjerg, M.R., see Koukolová, V. et al.
- Wettstein, H.-R., see Śliwiński, B.J. et al.
- Winnicka, A., see Sawosz, E. et al.
- Woong, L.C., see Ejaz, S. et al.
- Wójcik-Gładysz, A. (Jabłonna, Poland)  
 Morphological and physiological base of appetite regulation in the hypothalamus.  
 A review ..... 239
- Wu, H.L., see Yu, I.-T. et al.
- Wu, J.F., see Cheng, Y.H. et al.
- Wylegała, S., see Nowak, W., et al.

- Yen, H.-T., see Yu, I.T. et al.
- Yin, Y.-L., Deng, Z.-Y. (Nanchang, P.R. China), Huang, H.-L., Li, T.J. and Zhong, H.-Y. (Changsha, P.R. China)  
The effect of arabinoxylanase and protease supplementation on nutritional value of diets containing wheat bran or rice bran in growing pig ..... 445
- Yin, Y.-L., Deng, Z.-Y. (Nanchang, P.R. China), Huang, H.-L., Zhong, H.Y., Hou, Z.-P. (Changsha, P.R. China), Gong, J. and Liu, Q. (Guelph, Canada)  
Nutritional and health functions of carbohydrate for pigs ..... 523
- Yu, F., see Holtrop, G. et al.
- Yu, I.-T. (Chunan, Taiwan), Ju, C.-C. (Taipei, Taiwan), Lin, J., Wu, H.-L. and Yen, H.-T. (Chunan, Taiwan)  
Effects of probiotics and selenium combination on the immune and blood cholesterol concentration of pigs ..... 625
- Yurtseven, S. and Görgülü, M. (Adana, Turkey)  
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 ..... 417
- Zduńczyk, Z., see Flis, M. et al.
- Zhong, H.-Y., see Yin, Y.-L. et al.
- Żuk, M., see Kosieradzka, I. et al.
- Żyga, A., see Słota, E. et al.