

CONTENTS

Research Reports

- Effects of star anise (*Illicium verum* Hook.f.), essential oil, and leavings on growth performance, serum, and liver antioxidant status of broiler chickens**
 X. Ding, C. W. Yang, and Z. B. Yang 459
- Effects of toasting, inclusion levels and different enzyme supplementations of faba beans on growth performance of broiler chickens**
 E. Ivarsson and H. Wall 467
- Comparison of commercial and locally developed layers' performance and egg size prediction using regression tree method**
 V. M. O. Okoro, K. E. Ravhuhali, T. H. Mapholi, E. F. Mbajjorgu,
 and C. A. Mbajjorgu 476
- The effect of bone choice on quantification of mineralization in broiler chickens up to 6 weeks of age**
 D. V. Scholey and E. J. Burton 485
- Combination of quaternary ammonia and glutaraldehyde as a disinfectant against enveloped and non-enveloped viruses**
 A. Figueroa, R. Hauck, J. Saldias-Rodriguez, and R. A. Gallardo 491
- Chromatographic analysis of lipophilic compounds in eggs from organically fed hens**
 Andrea Bunea, Florina Maria Copaciu, Simona Paşcalău, Francisc Dulf,
 Dumitriţa Rugină, Romeo Chira, and Adela Pinteau 498
- Free-range and organic farming: Eggshell contamination by mesophilic bacteria and unusual pathogens**
 G. Pesavento, C. Calonico, M. Runfola, and A. Lo Nostro 509
- Alternative bedding materials and litter depth impact litter moisture and footpad dermatitis**
 E. M. Shepherd, B. D. Fairchild, and C. W. Ritz 518
- Effect of cereal type and Xylanase supplementation on nutrient retention and growth performance of broilers**
 De Fu Tang, Xing Xing Liu, Xue Gang Shi, and Usama Aftab 529
- Energy content of select dietary supplemental lipids for broilers, turkeys, and laying hens**
 Ganapathi R. Murugesan, Brian J. Kerr, and Michael E. Persia 536
- Compatibility of dimmers and alternative technology lamps for commercial broiler houses**
 S. M. Morrissey, E. R. Benson, R. L. Alphin, and D. P. Hougentogler 548
- Effects of glycine and glutamine supplementation to reduced crude protein diets on growth performance and carcass characteristics of male broilers during a 41-day production period**
 R. Kriseldi, P. B. Tillman, Z. Jiang, and W. A. Dozier, III 558

Effect of *Bacillus subtilis* (DSM 17299) on performance, digestibility, intestine morphology, and pH in broiler chickens

M. P. Reis, E. J. Fassani, A. A. P. Garcia Júnior, P. B. Rodrigues, A. G. Bertechini, N. Barrett, M. E. Persia, and C. J. Schmidt

573

Effects of supplementation of probiotics and prebiotics on growth performance, nutrient digestibility, organ weight, fecal microbiota, blood profile, and excreta noxious gas emissions in broilers

W. Yun, D. H. Lee, Y. I. Choi, I. H. Kim, and J. H. Cho

584

Field Report

Practical assessment and management of foot pad dermatitis in commercial broiler chickens: A Field Study

J. M. Hunter, S. A. Anders, T. Crowe, D. R. Korver, and C. J. Bench

593

Symposium: PSA Latin America

Issues and consequences of using nutrition to modulate the avian immune response

M. H. Kogut

605