

## CONTENTS

### Research Reports

- The effect of dietary lysozyme with EDTA on growth performance and intestinal microbiota of broiler chickens in each period of the growth cycle**  
M. Gong, D. Anderson, B. Rathgeber, and J. MacIsaac 1
- Using locally produced millet as a feed ingredient for poultry production in Sub-Saharan Africa**  
R. S. Cisse, J. D. Hamburg, M. E. Freeman, and A. J. Davis 9
- Growth and meat yield responses of Ross × Ross 708 male broilers fed diets formulated with distillers dried grains with solubles varying in ether extract content and inclusion rate from 1 to 49 days of age**  
W. A. Dozier, III, K. McCafferty, and J. B. Hess 23
- Influence of a yeast fermented product on the serum levels of the mannan-binding lectin and the antibodies against the Newcastle disease virus in Ross broilers**  
R. F. Cortés-Coronado, S. Gómez-Rosales, M. de L. Angeles, M. T. Casaubon-Huguenin, and T. Sørensen-Dalgaard 38
- Flue gas desulfurization gypsum: Its effectiveness as an alternative bedding material for broiler production**  
D. B. Watts, J. B. Hess, S. F. Bilgili, H. A. Torbert, J. L. Sibley, and J. D. Davis 50
- Evaluation of a thermotolerant xylanase on broiler growth performance and dietary ileal digestible energy value**  
C. A. Flores, M. P. Williams, K. Smith, J. Pieniazek, R. Latham, J. J. Wang, J. Tyus, and J. T. Lee 60
- New versus old broiler housing technology: Which leads to greater profit?**  
J. Gillespie, R. Nehring, and C. Hallahan 72
- Efficacy of chlorine dioxide gas in reducing *Escherichia coli* and *Salmonella* from broiler house environments**  
Sonia Tabasum Ahmed, A. B. M. Rubayet Bostami, Hong-Seok Mun, and Chul-Ju Yang 84
- The effect of poultry litter biochar on pellet quality, one to 21 d broiler performance, digesta viscosity, bone mineralization, and apparent ileal amino acid digestibility**  
A. M. Evans, J. W. Boney, and J. S. Moritz 89
- Effects of various feed additive strategies on broilers given 10× live coccidiosis vaccine**  
C. Cardenas, W. Zhai, and K. G. S. Wamsley 99
- Effect of air velocity on deep body temperature and weight gain in the broiler chicken**  
T. K. Hamrita and R. H. Conway 111

**Abnormal characteristics of eggs laid by hens fed with high levels of  
cottonseed meal**

M. Qi, L-h. Sun, J. Guo, J. Liu, Y-z. Duan, X.Wang, C-p. Zeng, D-s. Qi, and  
N-y. Zhang

122

**Development of cooked and smoked chicken sausage with reduced sodium and fat**

M. M. Schmidt, R. C. P. Dornelles, A. R. Vidal, A. Fontoura, E. H. Kubota,  
R. O. Mello, A. P. Kempka, and I. M. Demiate

130

**Evaluation of efficacy of Vero cell-adapted, thermostable Newcastle disease  
vaccine in broilers**

F. Siddique, M. S. Mahmood, I. Hussain, and F. Deeba

145

**Field Report**

***Campylobacter* detection in broiler ceca at processing: A three-year,  
211-flock survey**

M. E. Berrang, R. J. Meinersmann, S. R. Ladely, and N. A. Cox

154