Access leading journals in your subject

## Cambridge Core

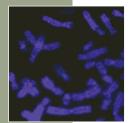
Explore today at cambridge.org/core

Cambridge Core











## AUGUST 2018 VOLUME 12 NUMBER 8

## **CONTENTS**

Nutrition Valable, A. S., Narcy, A., Duclos, M. J., Pomar, C., Page, G., Nasir, Z., Magnin, M. and Létourneau-Montminy, M. P. Effects of dietary calcium and phosphorus deficiency and subsequent recovery on broiler chicken growth performance and bone characteristics	1555
Faulconnier, Y., Bernard, L., Boby, C., Domagalski, J., Chilliard, Y. and Leroux, C.	
Extruded linseed alone or in combination with fish oil modifies mammary gene expression profiles in lactating goats	1564
Silva, L. G. T., Cooke, R. F., Schubach, K. M., Brandão, A. P., Marques, R. S., Schumaher, T. F., Moriel, P. and Bohnert, D. W. Supplementing a yeast-derived product to enhance productive and health responses of beef steers	1576
Physiology and functional biology Babacanoğlu, E. and Güler, H. C.	
High temperature and oxygen supplementation can mitigate the effects of hypoxia on developmental stability of bilateral traits during incubation of broiler breeder eggs	1584
Jeong, W., Bae, H., Lim, W., Bazer, F. W. and Song, G. RAS-related protein 1: an estrogen-responsive gene involved in development and molting-mediated regeneration of the female reproductive tract in chickens	1594
Siegers, E. W., de Ruijter-Villani, M., van Doorn, D. A., Stout, T. A. E. and Roelfserna, E. Ultrasonographic measurements of localized fat accumulation in Shetland pony mares fed a normal v a high energy diet for 2 years	1602
Chen, J. Q., Li, Y. S., Li, Z. J., Lu, H. X., Zhu, P. Q. and Li, C. M. Dietary L-arginine supplementation improves semen quality and libido of boars under high ambient temperature	1611
Welfare, behaviour and health management	
Stadig, L. M., Rodenburg, T. B., Reubens, B., Ampe, B. and Tuyttens, F. A. M. Effects of dark brooders and overhangs on free-range use and behaviour of slow-growing broilers	1621
Di Martino, G., Scollo, A., Garbo, A., Lega, F., Stefani, A. L., Vascellari, M., Natale, A., Zuliani, F., Zanardello, C., Tonon, F. and Bonfanti, L. Impact of sexual maturity on the welfare of immunocastrated v. entire heavy female pigs	1631
van Wettere, W. H. E. J., Toplis, P. and Miller, H. M. Effect of oral progesterone and caffeine at the end of gestation on farrowing duration and piglet growth and survival	1638
Livestock farming systems	
Joly, L., Goby, JP., Duprat, A., Legendre, H., Savietto, D., Gidenne, T. and Martin, G. PASTRAB: a model for simulating intake regulation and growth of rabbits raised on pastures	1642
Domingues, J. P., Ryschawy, J., Bonaudo, T., Gabrielle, B. and Tichit, M. Unravelling the physical, technological and economic factors driving the intensification trajectories of livestock systems	1652
Dalcq, AC., Beckers, Y., Mayeres, P., Reding, E., Wyzen, B., Colinet, F., Delhez, P and Soyeurt, H. The feeding system impacts relationships between calving interval and economic results of dairy farms	1662
Quality of animal products Mancini, S., Medina, I., Iaconisi, V., Gai, F., Basto, A. and Parisi, G. Impact of black soldier fly larvae meal on the chemical and nutritional characteristics of rainbow trout fillets	1672
Prache, S., Huang, Y. and Andueza, D. To what extent is a breed-specific database necessary to differentiate meat from pasture-fed and stall-fed lambs using visible spectroscopy?	1682
Brigida, D. J., Antonelo, D. S., Mazon, M. R., Nubiato, K. E. Z., Gómez, J. F. M., Netto, A. S., Leme, P. R., Cônsolo, N. R. B., Pesce, D. M. C. and Silva, S. L.	
Effects of immunocastration and a $\beta$ -adrenergic agonist on retail cuts of feedlot finished Nellore cattle	1690
Special Topic: Livestock production evolving to contribute to sustainable societies Gill, M., Gibson, J. P. and Lee, M. R. F.	4000
Editorial: Livestock production evolving to contribute to sustainable societies Perry, B. D., Robinson, T. P. and Grace, D. C.	1696
Review: Animal health and sustainable global livestock systems	1699
Givens, D. I. Review: Dairy foods, red meat and processed meat in the diet: implications for health at key life stages	1709
Broderick, G. A. Review: Optimizing ruminant conversion of feed protein to human food protein	1722
Wilkinson, J. M. and Lee, M. R. F. Review: Use of human-edible animal feeds by ruminant livestock	1735
Makkar, H. P. S. Review: Feed demand landscape and implications of food-not feed strategy for food security and climate change	1744
van Kernebeek, H. R. J., Oosting, S. J., van Ittersum, M. K., Ripoll-Bosch R. and de Boer, I. J. M. Closing the phosphorus cycle in a food system: insights from a modelling exercise	1755
Takahashi, T., Harris, P., Blackwell, M. S. A., Cardenas, L. M., Collins, A. L., Dungait, J. A. J., Hawkins, J. M. B., Misselbrook, T. H., McAuliffe, G. A., McFadzean, J. N., Murray, P. J., Orr, R. J., Rivero, M. J., Wu, L. and Lee, M. R. F.	1766
Roles of instrumented farm-scale trials in trade-off assessments of pasture-based ruminant production systems	1766

**Cambridge Core** For futher information about this journal please go to the journal web site at: cambridge.org/animal



