

Ontario Swine Research Review 2004

Environmental Research

[Little or No Supplemental Phosphorus is Needed for Growing-Finishing Pigs Fed Corn and Soybean Meal-Based Diets](#)

Y. Shen, A. Ajakaiye, T. Archbold and M.Z. Fan

[Dry Matter and Phosphorus Digestibility Respond Differentially to Graded Dietary Levels of Sodium Chloride Intake in Weaned Pigs](#)

M.Z. Fan and T. Archbold

[Mitochondrial DNA as an Indicator of Efficient Composting of Transgenic Swine Carcasses](#)

D. Murray, R. Meidinger, A. Ajakaiye, S. Golovan, J. Phillips, M.Z. Fan, R.R. Hacker and C. Forsberg

[Separated Drinking Water from Liquid Manure for Swine](#)

J.R. Morris, R. Fleming and M. MacAlpine

[A Suitable Dietary Level of Tylosin is Effective in Improving the Efficiency of Digestive Utilization of Environmental-Sensitive Nutrients in Growing Pigs](#)

K. Bregendahl, X. Yang, G. Vessie, R. Bagg, P. Dick and M.Z. Fan

[Neural Networks for Predicting Nitrate-Nitrogen in Drainage Water](#)

S.C. Negi and R.P. Rudra

Food Safety and Pork Quality

[Prevalence and Risk Factors for Antimicrobial Resistance Among Fecal Enterococci of Pigs and Farm Residents](#)

T.H. Akwar, C. Poppe, J. Wilson, R.J. Reid-Smith and S.A. McEwen

[The Effect of Feeding System on the Presence of *Salmonella*](#)

A. Farzan, R. Friendship, C. Dewey, C. deLange and C. Poppe

[The Prevalence of *Yersinia Enterocolitica* in Ontario Finisher Hogs](#)

Z. Poljak, T. Rosendal, R. Friendship, C. Dewey and B. Ciebin

[BiactonTM is Effective in Improving Growth Performance of Weanling Pigs](#)

K. Bregendahl, T. Rideout and M.Z. Fan

[Microbiology of Liquid Feed and Feed Ingredients](#)

K. Braun, R. Friendship and C.F.M. DeLange

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[The Economic Impact on the Ontario Swine Industry of Country of Origin Labeling by the United States](#)

K. McEwan and R. Duffy

[Role of Uterine Lymphocytes in Angiogenesis during Early Pig Pregnancy](#)

C. Tayade, G.P. Black and B.A. Croy

[Determining Timing of Ovulation in Sows for Successful Artificial Insemination](#)

G. Cassar, R. Kirkwood, K. Bennett-Steward and R. Friendship

[PRRS Virus: Understanding the Spread in the Nursery](#)

C.E. Dewey, O. Melnickouk, R.M. Friendship and D. Hayden

[PRRS Virus: Implications for the Breeding Herd](#)

C.E. Dewey, O. Melnichouk and R.M. Friendship

[PRRS Antibody in Piglets: When they Lose Colostral Protection](#)

C.E. Dewey, O. Melnichouk, R.M. Friendship and D. Hayden

[Serological Testing - Is it the Key for Targeted Medication \(Farm Two\)](#)

C.E. Dewey

[Development and Optimization of a Reverse Genetics System for Porcine Reproductive and Respiratory Syndrome Virus](#)

C. Lee, J.G. Calvert, S-K Welch and D. Yoo

[Prevalence of Swine Influenza in Ontario Sow and Finisher Hog Populations](#)

Z. Poljak, R.M. Friendship and C.E. Dewey

[Digestive Capacity of the Small Intestinal Aminopeptidase N is Decreased in Early-Weaned Pigs](#)

D. Lackeyram and M.Z. Fan

[Dietary Threonine Supplementation Prevents Intestinal Villus Atrophy and Goblet Cell Hypoplasia in Early-Weaned Piglets](#)

D. Lackeyram, D.G. Burrin and M.Z. Fan

[The Small Intestinal Fractional Protein Synthesis Rate Measured by an Intraperitoneal Injection of a Flooding Dose of a Stable Isotope L-\[ring\[²H₅\] Phenylalanine Tracer as a Rapid and Sensitive Biochemical Marker for Selecting Effective Growth Promoters in Weanling Pigs](#)

K. Bregendahl, L. Liu and M.Z. Fan

[Nutritional Analysis of Liquid Feed and Liquid Feed Ingredients for Pigs](#)

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[Heavy Metals and Mycotoxins in Swine Liquid Feed and Ingredients](#)

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[Pectin Infusion into the Caecum Reduces the Utilization of Threonine Intake for Body Protein Deposition and Urea Flux in Growing Pigs](#)

C.L. Zhu, H. Lapierre, M. Rademacher and C.F.M. deLange

[A Feeding Trial Using a Fermented-Liquid Diet with and without Probiotics](#)

R. Amezcua, R. Friendship, S. Weese, C.F.M. deLange and C. Dewey

[Leptin Enhances Porcine Oocyte Maturation and Embryo Development](#)

J. Craig, H. Zhu, P.W. Dyce, J. Petrik and J. Li

[Improving the Efficiency of Nuclear Transfer Using Stem Cells](#)

H. Zhu, J. Craig, P.W. Dyce, N. Sunnen and J. Li

[Study on the Feasibility of Recombinant Protegrin Expression and Secretion in Tracheal Epithelial Cells](#)

R.J. DeVries, P.W. Dyce, H. Miller, J. Peacock and J. Li

[Isolation of Multipotent Stem Cells from Porcine Skin](#)

P.W. Dyce, H. Zhu, J. Craig and J. Li

[Molecular and Quantitative Genetic Approaches to Swine Improvement](#)

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Behaviour and Well-Being

[In-Transit Losses in Pigs Marketed in 2001 in Ontario](#)

C.E. Dewey, C. Haley, T. Widowski and R.M. Friendship

[How do Cold, Drafty Conditions Affect the Behaviour of Weaned Piglets?](#)

A. Bruni and T.M. Widowski

[How Does Hunger Affect the Behaviour of Weaned Piglets?](#)

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[Assessment of the Group Housing System at the Arkell Swine Research Station](#)

M. Seguin, T.M. Widowski and D. Barney

[Drinker Type can Affect Feeding and Drinking Immediately Post-Weaning](#)

S. Torrey and T.M. Widowski

[Growth Rates are Related to the Post-Weaning Behaviours of Piglets](#)

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[How do Cold, Drafty Conditions Affect the Behaviour of Growing Pigs?](#)

T.M. Widowski, M. Jankevicius, L. Scott, L. Tippin and L. Urban

[Quantification of Aggressive and Sexual Behaviour in Group-Reared Intact Male](#)

[Growing Pigs](#)

D. Svab, I.J.H. Duncan and J. Squires

[Transport and Mixing of Market-Weight Boars and Barrows with and without a Topical Androstenone Solution](#)

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