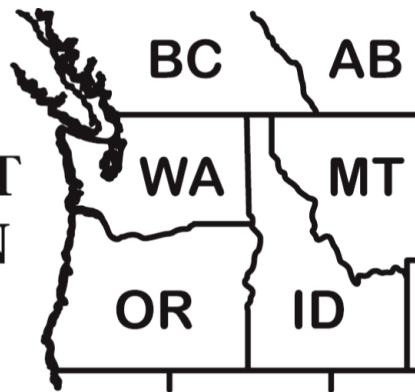


# 49<sup>th</sup> Annual Pacific Northwest Animal Nutrition Conference

## PROCEEDINGS

**PACIFIC NORTHWEST  
ANIMAL NUTRITION  
CONFERENCE**



2014  
Vancouver, BC

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## PROCEEDINGS

### **PRECONFERENCE** *Sponsored by Adisseo*

Milk Pricing – Can we tell the future by looking at the past?  
John Geuss Consulting

Changes in the Cornell Net Carbohydrate and Protein Model: How low is too low when feeding crude protein?  
Andreas Foskolos, Cornell University

Methionine – More than Milk  
Juan Loor, University of Illinois, Champaign-Urbana

The effects of Transition Cow Nutrition on subsequent reproduction  
Daniel Luchini, Adisseo

### **MAIN CONFERENCE**

Effects of Nutrition on the Health of Dairy Calves  
Michael Ballou, Texas Tech University

Transition Management: Grouping Strategies  
Ricardo Chebel, University of Minnesota

Potential for Feed Supplements to Enhance Dairy Cow Health  
Tanya Gressley, University of Delaware

Effect of Elevated Lipid Mobilization on Gene Expression and Fatty Acid Composition of Circulating Immune Cells, Milk, and Blood Lipid Fractions of Periparturient Dairy Cows  
Pedram Rezamand, University of Idaho

### **GRADUATE STUDENT ABSTRACTS**

The use of an automated estrous detection monitor during a timed AI program  
T.A. Burnett\*, A.M.L. Madureira, B.F. Silper, A.C.C. Fernandes, and R.L.A. Cerri

Relationship of concentrations of cortisol in hair with health, plasma metabolites and reproductive parameters in dairy cows  
T.A. Burnett\*, A.M.L. Madureira, B.F. Silper, A. Nadalin, D.M. Veira, and R.L.A. Cerri

Automated and visual measures of walking activity and behavior frequency during estrus and its sources of variation in nulliparous dairy cows  
B.F. Silper\*, I. Robles, A.M.L. Madureira, T.A. Burnett, M.M. Reis, A.M. de Passillé, J. Rushen, and R.L.A. Cerri

Automated measures of lying and standing patterns during estrus and its sources of variation in nulliparous dairy cows

B.F. Silper\*, L. Polsky, J. Luu, T.A. Burnett, J. Rushen, A.M. de Passillé, and R.L.A. Cerri\*

Social housing reduces food neophobia in dairy calves.

J.H.C. Costa\*, R.R. Daros, M.A.G. von Keyserlingk, and D.M. Weary

Effects of elevated subcutaneous fat stores on serum phospholipids fatty acid profile in periparturient dairy cows

C.M. Scholte\*, K.C. Ramsey, C. Tsai, Z.M. Amiri, B. Shafii, and P. Rezamand

The effect of dietary saturated and unsaturated fatty acid on gene expression and fatty acid composition of serum, adipose and liver lipid fractions in pre-ruminant calves

C.Y. Tsai\*, C.M. Scholte, J.M. Chilson, K.C. Ramsey, M.E. Doumit, and P. Rezamand

Improving ensiling characteristics of lower-quality forages using combination homofermentative Lactic Acid-producing Bacteria and Fibrolytic enzymes.

J.M. Chilson\*, M.E. Drewnoski, and P. Rezamand

Effects of Elevated Lipomobilization on Non-Esterified Fatty Acids and the Gene Expression of Inflammatory Markers in Early Lactating Dairy Cows

R. Scuderi\*, C. Watt, Z.M. Amiri, C.Y. Tsai, C. Scholte, and P. Rezamand