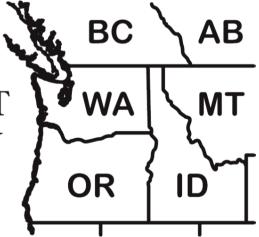
# 52<sup>nd</sup> Annual Pacific Northwest Animal Nutrition Conference

# PROCEEDINGS

# PACIFIC NORTHWEST ANIMAL NUTRITION CONFERENCE



January 16-17, 2018

Boise, Idaho

### - Organized By -

Oregon State University, University of British Columbia, University of Idaho, and Washington State University

### - Committee -

Amber Adams-Progar and Joe Harrison – Washington State University;

Pedram Rezamand and Carl Hunt – University of Idaho;

Chad Mueller – Oregon State University;

Tim Evans – Novus International, Inc.;

Tess White – Alltech;

George Dawson – Zinpro Performance Minerals;

Ronaldo Cerri – University of British Columbia;

Jan Breckman – Jefo Nutrition;

Lynn VanWieringen and Fred Muller – Ag Health Laboratories

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### 52<sup>nd</sup> Annual Pacific Northwest Animal Nutrition Conference

### PROCEEDINGS

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#### **GRADUATE STUDENT POSTER ABSTRACTS**

## LC-Triple TOF MS and SWATH<sup>®</sup> data acquisition to explore avian resistance to the fungal alkaloid ergovaline in endophyte-infected tall fescue diets.

H. Roberts, J. Duringer, M. Craig, J. Hermes, G. Cherian

### Blackberry Pomace - A Novel Feed Supplement for Transition Dairy Cows: Effect on Reproductive Performance

K. Swanson, S. Akers, K. Estenson, R. Wilson, M. Keller, and G. Bobe

## Flaxseed Supplementation with and without Rumen-Bypass Processing: Effect on Milk Production and Milk Fatty Acid Composition

S. Akers, R. Wilson, K. Swanson, M. Keller, L. Goddick, G. Cherian, R. Day, and G. Bobe<sup>-</sup>

#### Effects of precision feeding protein to dairy cattle on emissions from fresh slurry

C.B. Peterson, E.G. Schusterman, E.J. DePeters, Y.J. Zhao, Y. Pan, D. Luchini, and F.M. Mitloehner

# The effect of 2,4- thiazolidinedione on milk lipid soluble vitamins and fatty acid profiles in lactating goat induced with sub-clinical mastitis

C.Y. Tsai\*, F. Rosa, M. Bionaz, and P. Rezamand

## The effect of limit feeding forage on rumen development in pre-weaned Jersey calves D.E. McCurdy and A.H. Laarman

# Effects of feeding grape pomace in finishing cattle diets on production performance, carcass characteristics and product quality.

F.A. Arend, M.E. Doumit, G.K. Murdoch, and G.E. Chibisa

# Effect of betaine supplementation on total tract digestibility, rumen fermentation, and rumen microbiome in dairy cows

H.C. Hung, C.Y. Tsai, and P. Rezamand

# Effects of maturity at harvest on the nutritive value of Eragrostis tef (Moxie) when fed to beef cattle.

J.R. Vinyard, J.B. Hall, J.E. Sprinkle, G.E. Chibisa

#### Effect of processing Ventenata dubia on palatability in ruminants.

C.J. Watts, D.E. McCurdy, G.E. Chibisa, F.A. Brummer, T.S. Prather, A.H. Laarman

#### Effects of feeding supplemental butyrate on transfer of passive immunity.

R.L. Hiltz and A.H. Laarman

# Effects of inclusion of grape pomace in backgrounding cattle diets on nutrient intake and digestibility, and nitrogen excretion.

J.R. Vinyard, C.A. Myers, and G.E. Chibisa

#### PNWANC Program Agenda

#### Tuesday, January 16

8:30 AM – 12:45 PM	Onsite Registration
9:30 AM – Noon	Organizing/Planning Committee – River Fork Room

### DSM Preconference 1:00 PM – 5:15 PM



1:00 PM Welcome: This is DSM, and this is what we do! Kale Causemaker, DSM

#### Session 1: Vitamin Nutrition for the Transition Cow and Calf

Moderator – Kara Ortega, DSM

1:15 PM - B-Carotene for the Transition Cow and Calf: More Than Provitamin A - Dr. Mark Engstrom, DSM

2:00 PM - B-Carotene from a Dairyman's Perspective - Doug Hubby, DSM

2:45 PM – Break

#### Session 2: New Frontiers in Vitamin D Nutrition

Moderator – Ryan Barcellos

3:00 PM - Perspectives on Vitamin D and Human Nutrition, Michael McBurney, DSM

3:45 PM - 25-OH-D3 in poultry nutrition: what we have learned from a scientific and practical perspective - Dr. Nelson Ward, DSM

4:30 PM - Skeletal health in the modern dairy cow: Is it a driver of metabolic health?, Dr. Joe McGrath, DSM

5:30 PM - 7:00 PM Graduate Posters viewing/Reception by DSM

#### **PNWANC Conference Agenda**

#### Wednesday, January 17 starting at 8:15 AM

#### 7:00 AM – 8:15 AM Continental Breakfast

Chair: Dr. Joe Harrison

- 8:15 AM 8:30 AM Welcome and Introductions. Dr. Joe Harrison WSU
- 8:30 AM 9:10 AM Facts and fiction about livestock and climate change. Frank Mitloehner, University of California-Davis.
- 9:10 AM 9:50 AM An update on strategies to prevent hypocalcemia, not just milk fever, in transition cows. Jesse Goff, Iowa State University.

9:50 AM – 10:20 AM	Coffee Break, Sponsored by Simplot

Chair: Dr. Pedram Rezamand

10:20 AM – 11:00 AM	Managing transition period health for reproduction. Stephen LeBlanc, University of Guelph
11:00 AM – 11:40 AM	Lipid mediators and inflammatory disorders of dairy cows. Loraine Sordillo, Michigan State University.
11:40 AM – 12:00 PM	Graduate Posters Announcement and Presentations (top three graduate students informally share their research)
12:00 PM – 1:30 PM	Lunch Break
	Michael Parrella, Dean – College of Agriculture and Life Sciences – University of Idaho
	ARPAS presentation – Dr. Bill Sanchez
Chair: Dr. Anne Laarman	
Chair: Dr. Anne Laarman 1:30 PM – 2:10 PM	Corn silage, managing the manageable. Wes Kezar, Pioneer DuPont.
	Corn silage, managing the manageable. Wes Kezar, Pioneer DuPont. Coffee Break
1:30 PM – 2:10 PM	
1:30 PM – 2:10 PM 2:10 PM	
1:30 PM – 2:10 PM 2:10 PM Chair: Dr. Lynn VanWieringen	Coffee Break Update on mineral and vitamin requirements for dairy cows. Bill Weiss,