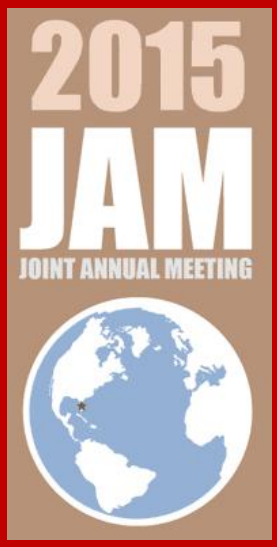
As published in

DairyAdvisor™

Research Update

JAM 2015: Top research in dairy nutrition and health



Diamond V
Booth #303

The Joint Annual Meeting of the American Dairy Science Association and the American Society of Animal Science, July 12-16 in Orlando, FL features the world's leading dairy researchers. More than a dozen Diamond V scientists and Dairy Advisors are attending. More than a dozen oral and poster presentations by university and Diamond V scientists present findings involving Diamond V products, including Original XPC™ and SmartCare®.

The list of presentations and their scheduled times and locations appears below.

Influences of SmartCare in milk replacer and XPC in calf starter on the performance and health of preweaning Holstein calves challenged with *Salmonella enterica* serotype Typhimurium.

Tyler L. Harris*[1], Yu Liang[1], Matt D. Sellers[1], Jeff A. Carroll[2], Ilkyu Yoon[3], Mark F. Scott[3], Michael A. Ballou[1], *[1]Department of Animal and Food Sciences, Texas Tech University, Lubbock, TX, [2]USDA-ARS, Lubbock, TX, [3]Diamond V, Cedar Rapids, IA.*

Abstract #153
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy calves
Format: Oral
Day/Time: Monday 10:30 AM–10:45 AM
Location: Panzacola H-3

Effects of rumen inoculum adapted and unadapted to *Saccharomyces cerevisiae* fermentation product, culture pH, and starch fermentability on the biohydrogenation of unsaturated fatty acids in batch culture.

Yan Sun*[1], Michael S. Allen[1], Adam L. Lock[1], *[1]Michigan State University, East Lansing, MI.*

Abstract #171
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy rumen fermentation
Format: Oral
Day/Time: Monday 12:00 PM–12:15 PM
Location: Panzacola G-1

Effects of *Saccharomyces cerevisiae* fermentation products on performance of mid-lactation dairy cows.

Subash Acharya*[1], Jon P. Pretz[1], Ilkyu Yoon[2], Mark F. Scott[2], David P. Casper[1], *[1]South Dakota State University, Brookings, SD, [2]Diamond V, Cedar Rapids, IA.*

Abstract #172
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy rumen fermentation
Format: Oral
Day/Time: Monday 12:15 PM–12:30 PM
Location: Panzacola G-1

Effects of *Saccharomyces cerevisiae* fermentation product on rumen fermentation during heat stress.

Kristy L. Dorton*[1], Tracy Werner[1], Jason Lin[1], Abigail Souder[1], Adam M. Brainard[1], Joan Butler[1], Ilkyu Yoon[1], *[1]Diamond V, Cedar Rapids, IA.*

Abstract #M375
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy I
Format: Poster
Day/Time: Monday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Massive shotgun metagenomic sequencing reveals the potential mode of action of *Saccharomyces cerevisiae* fermentation product (SCFP) on rumen microbiome during subacute ruminal acidosis (SARA) in dairy cows.

H. M. Tun*[1], S. Li[1], I. Yoon[2], M. Scott[2], J. C. Plaizier[1], E. Khafipour[1], *[1]Department of Animal Science, University of Manitoba, Winnipeg, MB, Canada, [2]Diamond V, Cedar Rapids, IA.*

Abstract #T18
Section: Animal Health
Session: Animal Health: Lactating cows
Format: Poster
Day/Time: Tuesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Effects of *Saccharomyces cerevisiae* fermentation product (SCFP) on the predicted functional profiles of rumen microbiome in lactating dairy cows with subacute ruminal acidosis (SARA).

S. C. Li*[1], H. M. Tun[1], P. Azevedo[1], I. Yoon[2], M. Scott[2], J. C. Plaizier[1], E. Khafipour[1], *[1]Department of Animal Science, University of Manitoba, Winnipeg, MB, Canada, [2]Diamond V, Cedar Rapids, IA.*

Abstract #T19
Section: Animal Health
Session: Animal Health: Lactating cows
Format: Poster
Day/Time: Tuesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Effects of different dosages of *Saccharomyces cerevisiae* fermentation product on lactation performance of dairy cows under heat stress.

Wen Zhu[*1], B. X. Zhang[1], K. Y. Yao[1], I. Yoon[2], Ruby Chung[2], J. K. Wang[1], J. A. Ye[1], J. X. Liu[1], *[1]Institute of Dairy Science, College of Animal Science, Zhejiang University, Hangzhou, China, [2]Diamond V, Cedar Rapids, IA.*

Abstract #T412
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy II
Format: Poster
Day/Time: Tuesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Effects of *Saccharomyces cerevisiae* fermentation products on lactation performance, rumen fermentation and microbial communities in dairy cows fed a diet containing low quality forages.

Wen Zhu[*1], Z. H. Wei[1], N. N. Xu[1], Fan Yang[1], I. Yoon[2], Ruby Chung[2], J. K. Wang[1], J. A. Ye[1], J. X. Liu[1], *[1]Institute of Dairy Science, College of Animal Science, Zhejiang University, Hangzhou, China, [2]Diamond V, Cedar Rapids, IA.*

Abstract #T413
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy II
Format: Poster
Day/Time: Tuesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Effects of *Saccharomyces cerevisiae* fermentation products on dairy calf: I. Pre-weaning performance and post-weaning stress.

G. M. Alugongo[*1], J. X. Xiao[1], R. Chung[2], S. Z. Dong[1], S. L. Li[1], I. Yoon[2], Z. J. Cao[1], *[1]State Key Laboratory of Animal Nutrition, Department of Animal Nutrition and Feed Sciences, China Agricultural University, Beijing, China, [2]Diamond V, Cedar Rapids, IA.*

Abstract #T446
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy II
Format: Poster
Day/Time: Tuesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Effects of *Saccharomyces cerevisiae* fermentation products on dairy calf: II. Rumen fermentation and gastrointestinal development.

Jianxin Xiao[*1], Gibson Maswayi Alugingo[1], Ruby Chung[2], Dongshuang Zhao[1], Shengli Li[1], Ilkyu Yoon[2], Zhijun Cao[1], *[1]State Key Laboratory of Animal Nutrition, Department of Animal Nutrition and Feed Sciences, China Agricultural University, Beijing, China,, [2]Diamond V, Cedar Rapids, IA,.*

Abstract #T455
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy II

Format: Poster
Day/Time: Tuesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Supplementation of *Saccharomyces cerevisiae* fermentation products for the prevention of geophagia in Holstein female calves fed milk in buckets.
Sonia Vazquez-Flores*[1], Stephany Barrera-Almanza[1], María de Jesús Guerrero[2], Kristy Dorton[3], Mark Scott[3], William Sanchez[3], *[1]Tecnológico de Monterrey, Querétaro, Querétaro, México, [2]Universidad Autónoma de Querétaro, Querétaro, Querétaro, México, [3]Diamond V, Cedar Rapids, IA.*
Abstract #W29
Section: Animal Health
Session: Animal Health: Dairy calves & heifers
Format: Poster
Day/Time: Wednesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Influences of SmartCare in milk replacer and XPC in calf starter on the performance and health of pre-weaning Holstein calves challenged orally with an opportunistic infection with *Citrobacter freundii*.
Tyler L. Harris*[1], Yu Liang[1], Matt D. Sellers[1], Cameron R. Nightingale[1], Kate P. Sharon[1,2], Jeff A. Carroll[2], Ilkyu Yoon[3], Mark F. Scott[3], Michael A. Ballou[1], *[1]Department of Animal and Food Sciences, Texas Tech University, Lubbock, TX, [2]USDA-ARS, Lubbock, TX, [3]Diamond V, Cedar Rapids, IA.*
Abstract #W409
Section: Ruminant Nutrition
Session: Ruminant Nutrition: General III
Format: Poster
Day/Time: Wednesday 7:30 AM–9:30 AM
Location: Gatlin Ballroom

Lactational performance and ruminal morphometrics when mid-lactation dairy cows are fed *Sacchararomyces cerevisisae* fermentation products.
Jon P. Pretz*[1], Subash Acharya[1], Ilkyu Yoon[2], Mark Scott[2], David P. Casper[1], *[1]South Dakota State University, Brookings, SD, [2]Diamond V, Cedar Rapids, IA.*
Abstract #856
Section: Ruminant Nutrition
Session: Ruminant Nutrition: Dairy rumen metabolism
Format: Oral
Day/Time: Thursday 10:00 AM–10:15 AM
Location: Panzacola F-2

If you cannot access the abstracts listed above, please contact your Diamond V representative for assistance. Also, you're welcome to meet Diamond V researchers and Dairy Advisors at the Diamond V booth #303 during JAM 2015.