

Journal of Dairy Science

April 2008

Volume 91, Number 4

CONTENTS

INTERPRETIVE SUMMARIES.....	v
NEWS AND ANNOUNCEMENTS.....	xi
EDITORIAL REPORT:	
<i>Journal of Dairy Science</i> 2007 Editorial Report	
G. W. Rogers	1279
INVITED REVIEW:	
<i>ADSA Foundation Scholar Award: Possibilities and Challenges of Exopolysaccharide-Producing Lactic Cultures in Dairy Foods</i>	
A. N. Hassan	1282
DAIRY FOODS:	
High Hydrostatic Pressure Modification of Whey Protein Concentrate for Improved Functional Properties	
S.-Y. Lim, B. G. Swanson, and S. Clark	1299
High Hydrostatic Pressure Modification of Whey Protein Concentrate for Improved Body and Texture of Lowfat Ice Cream	
S.-Y. Lim, B. G. Swanson, C. F. Ross, and S. Clark	1308
Water Buffalo Mozzarella Cheese Stored in Polysaccharide-Based Gels: Correlation Between Prolongation of the Shelf-Life and Physicochemical Parameters	
P. Laurienzo, M. Malinconico, G. Mazzarella, F. Petitto, N. Piciocchi, R. Stefanile, and M.G. Volpe	1317
<i>Technical Note: Confocal Scanning Laser Microscopy and Quantitative Image Analysis: Application to Cream Cheese Microstructure Investigation</i>	
F. Fenoul, M. Le Denmat, F. Hamdi, G. Cuvelier, and C. Michon	1325
PHYSIOLOGY AND MANAGEMENT:	
A Meta-Analysis of the Impact of Monensin in Lactating Dairy Cattle. Part 1. Metabolic Effects	
T. F. Duffield, A. R. Rabiee, and I. J. Lean	1334
A Meta-Analysis of the Impact of Monensin in Lactating Dairy Cattle. Part 2. Production Effects	
T. F. Duffield, A. R. Rabiee, and I. J. Lean	1347
Evaluation of Three Commercial Hoof-Care Products Used in Footbaths in Danish Dairy Herds	
P. T. Thomsen, J. T. Sørensen, and A. K. Ersbøll	1361
Incidence Rate of Clinical Mastitis on Canadian Dairy Farms	
R. G. M. Olde Riekerink, H. W. Barkema, D. F. Kelton, and D. T. Scholl	1366
Effects of Abomasal Infusion of Linseed Oil on Responses to Glucose and Insulin in Holstein Cows	
J. A. A. Pires, J. B. Pescara, A. E. Brickner, N. Silva del Rio, A. P. Cunha, and R. R. Grummer	1378
The Influence of Cow Factors on the Incidence of Clinical Mastitis in Dairy Cows	
W. Steeneveld, H. Hogeveen, H. W. Barkema, J. van den Broek, and R. B. M. Huirne	1391

Cow, Farm, and Herd Management Factors in the Dry Period Associated with Raised Somatic Cell Counts in Early Lactation M. J. Green, A. J. Bradley, G. F. Medley, and W. J. Browne	1403
Effects of Twice-Daily Nursing on Milk Ejection and Milk Yield During Nursing and Milking in Dairy Cows A. M. de Passillé, P.-G. Marnet, H. Lapierre, and J. Rushen	1416
Evaluation of Factors Associated with Increased Dairy Cow Mortality on United States Dairy Operations C. S. McConnel, J. E. Lombard, B. A. Wagner, and F. B. Garry	1423
<i>Short Communication:</i> Prepartal Concentration of Estradiol-17 β in Heifers with Stillborn Calves U. S. Sorge, D. F. Kelton, and R. Staufenbiel	1433
<i>Short Communication:</i> Comparison of Manual Versus Semiautomatic Milk Recording Systems in Dairy Goats A. Ait-Saidi, G. Caja, S. Carné, A. A. K. Salama, and J. J. Ghirardi	1438

NUTRITION, FEEDING, AND CALVES:

Dietary Unsaturated Fatty Acids Increase Plasma Glucagon-Like Peptide-1 and Cholecystokinin and May Decrease Premeal Ghrelin in Lactating Dairy Cows B. J. Bradford, K. J. Harvatine, and M. S. Allen	1443
The Effect of Silage Cutting Height on the Nutritive Value of a Normal Corn Silage Hybrid Compared with Brown Midrib Corn Silage Fed to Lactating Cows L. Kung Jr., B. M. Moulder, C. M. Mulrooney, R. S. Teller, and R. J. Schmidt	1451
Feeding Activated Charcoal from Bark Containing Wood Vinegar Liquid (Nekka-Rich) Is Effective as Treatment for Cryptosporidiosis in Calves S. Watarai, Tana, and M. Koiwa	1458
Influence of Fermentation Methods on Neutral Detergent Fiber Degradation Parameters D. Bossen, D. R. Mertens, and M. R. Weisbjerg	1464
Effects of Supplementation and Stage of Lactation on Performance of Grazing Dairy Ewes C. M. Mikolayunas, D. L. Thomas, K. A. Albrecht, D. K. Combs, Y. M. Berger, and S. R. Eckerman	1477
Effects of Providing Water from a Bucket or a Nipple on the Performance and Behavior of Calves Fed Ad Libitum Volumes of Acidified Milk Replacer H. P. Hepola, L. T. Hänninen, S. M. Raussi, P. A. Pursiainen, A.-M. Aarnikoivu, and H. S. Saloniemi	1486
Effect of Feeding Yeast Culture on Performance, Health, and Immunocompetence of Dairy Calves V. J. A. Magalhães, F. Susca, F. S. Lima, A. F. Branco, I. Yoon, and J. E. P. Santos	1497
Associations Between Housing, Management, and Morbidity During Rearing and Subsequent First-Lactation Milk Production of Dairy Cows in Southwest Sweden C. Svensson and J. Hultgren	1510
Analysis of Nitrogen Utilization and Excretion in Growing Dairy Cattle G. I. Zanton and A. J. Heinrichs	1519
Effects of Planting Date on Fiber Digestibility of Whole-Crop Barley and Productivity of Lactating Dairy Cows L. O. Chow, V. S. Baron, R. Corbett, and M. Oba	1534
Transfer of Dietary Zinc and Fat to Milk—Evaluation of Milk Fat Quality, Milk Fat Precursors, and Mastitis Indicators L. Wiking, T. Larsen, and J. Sehested	1544
Supplementing Limited Methionine Diets with Rumen-Protected Methionine, Betaine, and Choline in Early Lactation Holstein Cows S. Davidson, B. A. Hopkins, J. Odle, C. Brownie, V. Fellner, and L. W. Whitlow	1552

Milk Production, Conjugated Linoleic Acid Content, and In Vitro Ruminant Fermentation in Response to High Levels of Soybean Oil in Dairy Ewe Diet P. Gómez-Cortés, P. Frutos, A. R. Mantecón, M. Juárez, M. A. de la Fuente, and G. Hervás	1560
Basal Expression of Nucleoside Transporter mRNA Differs Among Small Intestinal Epithelia of Beef Steers and Is Differentially Altered by Ruminant or Abomasal Infusion of Starch Hydrolysate S. F. Liao, M. J. Alman, E. S. Vanzant, E. D. Miles, D. L. Harmon, K. R. McLeod, J. A. Boling, and J. C. Matthews	1570
Hay to Reduce Dietary Cation-Anion Difference for Dry Dairy Cows E. Charbonneau, P. Y. Chouinard, G. F. Tremblay, G. Allard, and D. Pellerin	1585
Effects of Fescue Type and Sampling Date on the Nitrogen Disappearance Kinetics of Autumn-Stockpiled Tall Fescue R. Flores, W. K. Coblenz, R. K. Ogden, K. P. Coffey, M. L. Looper, C. P. West, and C. F. Rosenkrans Jr.	1597
A Barrier Can Reduce Competition over Teats in Pair-Housed Milk-Fed Calves M. B. Jensen, A. M. de Passillé, M. A. G. von Keyserlingk, and J. Rushen	1607

GENETICS AND BREEDING:

Effect of Quantitative Trait Loci for Milk Protein Percentage on Milk Protein Yield and Milk Yield in Israeli Holstein Dairy Cattle E. Lipkin, R. Tal-Stein, A. Friedmann, and M. Soller	1614
Across-Family Marker-Assisted Selection Using Selective Genotyping Strategies in Dairy Cattle Breeding Schemes S. Ansari-Mahyari, A. C. Sørensen, M. S. Lund, H. Thomsen, and P. Berg	1628
Relationship Between Individual Herd-Heritability Estimates and Sire Misidentification Rate C. D. Dechow, H. D. Norman, N. R. Zwald, C. M. Cowan, and O. M. Meland	1640
<i>Short Communication:</i> Variance Estimates Among Herds Stratified by Individual Herd Heritability C. D. Dechow, H. D. Norman, and C. A. Pelensky	1648
Accuracy of Prediction of Gene Content in Large Animal Populations and its Use for Candidate Gene Detection and Genetic Evaluation N. Gengler, S. Abras, C. Verkenne, S. Vanderick, M. Szydlowski, and R. Renaville	1652
Relationship Between Reproduction Traits and Functional Longevity in Canadian Dairy Cattle A. Sewalem, F. Miglior, G. J. Kistemaker, P. Sullivan, and B. J. Van Doormaal	1660
<i>Technical Note:</i> Recursive Algorithm for Inbreeding Coefficients Assuming Nonzero Inbreeding of Unknown Parents I. Aguilar and I. Misztal	1669

OUR INDUSTRY TODAY:

Love Thy Neighbor—But Does that Include a Six Hundred Eighty-Four Cow Dairy Operation? A Survey of Community Perceptions J. M. Smith, R. L. Parsons, K. Van Dis, and G. N. Matiru	1673
Survey of Dairy Management Practices on One Hundred Thirteen North Central and Northeastern United States Dairies W. K. Fulwider, T. Grandin, B. E. Rollin, T. E. Engle, N. L. Dalsted, and W. D. Lamm	1686
A Comparison of Three Strains of Holstein-Friesian Grazed on Pasture and Managed Under Different Feed Allowances K. A. Macdonald, G. A. Verkerk, B. S. Thorrold, J. E. Pryce, J. W. Penno, L. R. McNaughton, L. J. Burton, J. A. S. Lancaster, J. H. Williamson, and C. W. Holmes	1693

NOTICE: Page Charges for Publication

The page charge per printed page is \$85 for professional members and \$140 for nonmembers for papers published in *Journal of Dairy Science*. Open access (OA) publication is available upon payment of a \$1000 OA fee in addition to standard page charges.

Future Annual Meetings

2008–July 7–11, Indianapolis, IN

2009–July 12–16, Montreal, Canada

2010–July 11–15, Denver, CO