

## APPENDIX F-1

### NUTRITION AND HEALTH RESEARCH INSTITUTES AND DAIRY FOODS RESEARCH CENTERS 2001

#### Nutrition and Health Research Institutes

##### **Diet, Genetics, and Heart Disease Institute**

Louisiana State University  
Pennington Biomedical Research Center

##### **Genetics and Nutrition Institute**

Children's Hospital, Oakland Research Institute

#### Research Focus

Relationship of Low-Fat Diets to Heart Disease

Relationship of Genetics, Dietary Fat (Especially Dairy Fat)  
and Heart Disease

#### Dairy Foods Research Centers

##### **California**

California Polytechnic State University  
University of California at Davis

##### **Minnesota/South Dakota**

University of Minnesota  
South Dakota State University

##### **Northeast**

Cornell University  
University of Vermont

##### **Southeast**

North Carolina State University  
Mississippi State University

##### **Western**

Utah State University  
Oregon State University  
Brigham Young University

##### **Wisconsin**

University of Wisconsin at Madison

#### Research Objectives

Milk Component Characterization, Modification, and  
Utilization  
Dairy Products and Process Technologies: Applications  
Dairy Food Safety

Genetics of Dairy Starter Cultures  
Dairy Food Quality and Safety  
Utilization of Dairy Components as Ingredients

Dairy Product Quality  
Functional Properties of Dairy Products and Milk  
Components  
Dairy Product Safety  
Dairy Product Processing, Engineering, and Packaging  
New Product Development

Milk Component Functionality  
Microbial and Genetic Technologies  
Biological and Thermal Processing Technologies  
Applications to Innovative Products and Processes

Research of How Dairy Proteins Function and Interact

Practical Research of Dairy Proteins to Design Dairy Protein  
Systems for Their Use in Food Manufacture  
Function of Proteins and Enzymes in Low-Fat Cheeses

Milkfat Management and Utilization  
Nonfat Solids Utilization  
Cheese Technology  
Quality and Safety

## APPENDIX F-2

### DAIRY FOODS COMPETITIVE RESEARCH ACTIVITIES DURING 2001

<u>Principal Investigator &amp; Institution</u>	<u>Project Title</u>
<b>William R. Aimutis, Ph.D.</b> Land O' Lakes	Physical and Biochemical Changes Associated with Shredded Cheese During Ripening [continued in 2001]
<b>Polly Dinsmore-Courtney, Ph.D.</b> Ohio State Univ. Research Foundation	Control of Cheddar Cheese Ripening Via High Pressure Treatment [completed in 2001]
<b>Susan E. Duncan, Ph.D.</b> Virginia Polytechnic Institute	Controlled Release of Antioxidants by Polymer Films into Milk [continued in 2001]
<b>Robert W. Hutkins, Ph.D.</b> Virginia Polytechnic Institute	Utilization of Fructooligosaccharides by Probiotic Bacteria [began in 2001]
<b>Michael E. Mangino, Ph.D.</b> Ohio State University	Partial Denaturation to Improve Heat Stability of Whey Protein [completed in 2001]
<b>Joseph E. Marcy, Ph.D.</b> Virginia Polytechnic Institute	Improved Uses of Natamycin to Prevent Mold Spoilage of Cheese [continued in 2001]  Active Packaging to Improve the Quality of UHT Milk [continued in 2001]
<b>Teresa Marshall, Ph.D.</b> University of Iowa, College of Dentistry	Identification of the Roles that Dairy Products, Particularly Fluid Milk, Play in Dental Cavities and Fluorosis of Young Children [began in 2001]
<b>David J. McClements, Ph.D.</b> University of Massachusetts	Application of Whey Proteins and Emulsifiers in Foods [completed in 2001]
<b>John U. McGregor, Ph.D.</b> Clemson University	Fluid Dairy Products as Ingredients in Freshly Prepared Coffee House Beverages [continued in 2001]  Enhancing the Shelf Life of Whole Milk Powder [continued in 2001]
<b>Ronald L. Richter, Ph.D.</b> Texas A&M University System	Effects of Formulation and Processing on the Emulsion Stability and Sedimentation of Retort Sterilized Dairy-Based Nutritional Products [completed in 2001]
<b>Scott Rankin, Ph.D.</b> University of Wisconsin at Madison	Biochemistry of Full and Reduced Fat Cheddar Shred Ripening [continued in 2001]

## APPENDIX F-2

### DAIRY FOODS COMPETITIVE RESEARCH ACTIVITIES DURING 2001 (CONTINUED)

<u>Principal Investigator &amp; Institution</u>	<u>Project Title</u>
<b>Judith Stable, Ph.D.</b> International Dairy Foods Association	Study of Thermal Inactivation of Mycobacterium Paratuberculosis [completed in 2001]
<b>Debra Sullivan, Ph.D.</b> University of Kansas Medical Center	Effects of Increased Dairy Product Consumption on Blood Pressure in a Multi-Ethnic Population of Elementary School Children [began in 2001]
<b>Richard L. Stroshine, Ph.D.</b> Purdue Research Foundation	Low Field Proton Magnetic Resonance for On-Line Monitoring of the Moisture Content of Processed Cheese and Other Dairy Products [continued in 2001]
<b>Margaret Swearingen, Ph.D.</b> Land O' Lakes	Calcium Lactate Levels and Incidence of Crystals on Cheddar Cheese [continued in 2001]

## APPENDIX F-3

### NUTRITION COMPETITIVE RESEARCH ACTIVITIES DURING 2001

<u>Principal Investigator &amp; Institution</u>	<u>Project Title</u>
<b>Dale E. Bauman, Ph.D.</b> Cornell University	Interrelationships Between Trans Fatty Acids and Conjugated Linoleic Acids and Their Role in Lipid Metabolism [completed in 2001]  Production of CLA-Enriched Butter for Animal Studies of Mammary Cancer [began in 2001]
<b>Terri D. Boyston, Ph.D.</b> Iowa State University	Development of A Yogurt with Increased CLA Content Produced with Probiotic Bacteria [continued in 2001]
<b>Leann L. Birch, Ph.D.</b> Pennsylvania State University	Parental Influence on Girls' Calcium Intake and Bone Mineral Density [continued in 2001]
<b>Carol J. Boushey, Ph.D.</b> Purdue Research Foundation	Qualitative Assessment of Lactose Consumption and Symptoms by Meta-Analysis [completed in 2001]
<b>Gary M. Chan, M.D.</b> Children's Medical Center Foundation	The Effects of Dairy Foods on Adolescent Pregnant Mothers and Their Newborn [began in 2001]  Effects of Milk and Non-Milk Beverages on Young Children's Nutrition and Taste Preferences [continued in 2001]
<b>Adam Drewnowski, Ph.D.</b> University of Washington	Diet Quality Indices and the Use of Dairy Products by French Adults: The SUVIMAX Study [began in 2001]
<b>Penny Kris-Eatherton, Ph.D.</b> Pennsylvania State University	Fat Oxidation in Children and Adults [began in 2001]
<b>Michael Falk, Ph.D.</b> Life Sciences Research Office	Evidence for a Health Claim: Dairy Foods/Calcium and Colorectal Cancer [completed in 2001]
<b>Rafael Jiminez-Florez, Ph.D.</b> California Polytechnic State University Foundation	Isolation of Milk Membrane Components from Buttermilk and their Impact on Health [began in 2001]
<b>Michael I. Goran, Ph.D.</b> University of Alabama, Birmingham	Influence of Dairy Intake and Dietary Fat on Body Composition, Fat Distribution, and Health in Caucasian and African-American Children [completed in 2001]
<b>Mikko Griinari, Ph.D.</b> University of Helsinki	Milk Fat Component, Trans-11 C18:1 (Vaccenic Acid), as a Precursor of Conjugated Linoleic Acid (CLA) in Humans [completed in 2001]

## APPENDIX F-3

### NUTRITION COMPETITIVE RESEARCH ACTIVITIES DURING 2001 (CONTINUED)

<u>Principal Investigator &amp; Institution</u>	<u>Project Title</u>
<b>Peter R. Holt, M.D.</b> St. Luke's-Roosevelt Institute for Health Sciences	Dairy Product Inhibition of Colonic Neoplasms [completed in 2001]
<b>Clement Ip, Ph.D.</b> Roswell Park Cancer Institute	Mammary Cancer Prevention by Milkfat-CLA [completed in 2001]  Mammary Cancer Prevention by CLA- Butter [began in 2001]
<b>Rachel K. Johnson, Ph.D.</b> University of Vermont	The Effect of Flavored Milk on the Quality of Children's Diets [continued in 2001]
<b>Susan L. Johnson, Ph.D.</b> University of Colorado Health Sciences Center	Normal Development of Children's Energy Intake Regulation and Weight Status: Changes in Individual Responsiveness to Dietary Carbohydrate and Fat [completed in 2001]
<b>William J. Kramer, Ph.D.</b> Ball State University	Effects of Increasing Consumption of Milk Products and Exercise Training Programs on Body Composition, Bone Density, and Muscular Performance in Teenage Boys and Girls [completed in 2001]
<b>Martin Lipkin, M.D.</b> Strang Cancer Research Laboratory at the Rockefeller University	Inhibition of Colon Cancer by Dairy Foods [completed in 2001]
<b>Velmir Matkovic, Ph.D.</b> Ohio State Univ. Research Foundation	Traits in Body Composition in Young Females Consuming Dairy Products vs. Calcium Supplements [completed in 2001]  pQCT of the Forearm in Children with Fractures [continued in 2001]
<b>Jill A. Metz, Ph.D.</b> Oregon Health Sciences University	Low-Fat Dairy Products Reduce Antihypertensive Drug Therapy [completed in 2001]
<b>Lynn L. Moore, Ph.D.</b> Boston University School of Medicine	Effects of Milk and Milk Products on Blood Pressure and Bone Density in Children [completed in 2001]
<b>David Murdy, M.D.</b> betterMD.net	Randomized Controlled Trial of Novel Milk Based Weight Loss in Well Supervised Outpatients [began in 2001]
<b>Aviva Must, Ph.D.</b> Tufts University	Influence of Milk and Milk Products Consumption on Incident Obesity and Changes in Children, Adolescents, and Young Adults [continued in 2001]
<b>Mary Frances Picciano, Ph.D.</b> Pennsylvania State University	Food Group Analyses for Development of Dietary Guidance during Early Childhood [completed in 2001]
<b>Janet Rankin, Ph.D.</b> Virginia Polytechnic Institute	Effect of Milk Consumption on Acute Muscle Protein Synthesis and Degradation after Resistance Exercise and on Chronic Muscle Hypertrophy [completed in 2001]

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### NUTRITION COMPETITIVE RESEARCH ACTIVITIES DURING 2001 (CONTINUED)

<u>Principal Investigator &amp; Institution</u>	<u>Project Title</u>
<b>Susan B. Roberts, Ph.D.</b> New England Medical Center	Physiological and Cognitive Effects of Beverage Consumption [continued in 2001]
<b>Jean-Baptiste Roulet, Ph.D.</b> Oregon Health Sciences University	Dairy Products, Calcium Intake, and School Performance [completed in 2001]
<b>Eva Maria Schmelz, Ph.D.</b> Wayne State University	Suppression of Colon Cancer by Dietary Sphingolipids and Calcium, Part II [continued in 2001]
<b>Jon A. Story, Ph.D.</b> Purdue University Research Foundation	Regulation of Cholesterol Metabolism by CLA-Rich Milkfat [completed in 2001]
<b>Dorothy Teegarden, Ph.D.</b> Purdue Research Foundation	Do Dairy Products Prevent Weight Gain in Young Women [completed in 2001]
<b>Warren Thompson, M.D.</b> The Mayo Clinic	Effects of High Dairy, High Fiber, Low Glycemic Index, Low Energy Density Diet on Weight, Body Fat, and Glucose Tolerance [began in 2001]
<b>Kevin Tipton, Ph.D.</b> University of Texas Medical Branch	Ability to Enhance the Stimulation of Muscle Growth by Resistance Exercise [continued in 2001]
<b>John P. Vanden Heuvel, Ph.D.</b> Pennsylvania State University	Modulation of Diabetes by Conjugated Linoleic Acid [continued in 2001]
<b>Michael B. Zemel, Ph.D.</b> University of Tennessee	Role of Whey Proteins in Enhancing the Anti-Obesity Effects of Dietary Calcium [began in 2001]
	Effects of Calcium-Rich Dairy Products on Weight Loss in Obese Adults [completed in 2001]
	Role of Dairy Foods in Reducing Body Fat and Enhancing Weight Loss in African-American Adults [continued in 2001]
	Interaction between Calcium Rich Dairy Products and Dietary Micronutrients in Modulating Weight Loss in Obese Mice [continued in 2001]