

College of Human Sciences

Research News – Summer/Fall 2008

The following are grants awarded from May 15, 2008 – September 30, 2008

Gregory Welk (PI, Kinesiology), **Alicia Carriquiry** (Statistics), **Sarah Nusser** (Statistics), **\$616,430** from **National Institutes of Health** – *A Measurement Error Approach to Estimating Usual Daily Physical Activity Distributions*

Stephanie Jung (PI, Food Science & Human Nutrition), **Dong Ahn** (Animal Science), **\$26,291** from **Iowa Egg Council** – *Bioactive Peptides from High Pressure Treated Phosvitin*

Charles Glatz (PI, Chemical & Biological Engineering), **Lawrence Johnson** (Food Science & Human Nutrition), **Kan Wang** (Agronomy), **Anthony Pometto** (Food Science & Human Nutrition), **\$319,467** from **Department of Agriculture, CSREES** – *Biotechnology Test Production, IA: Advanced Corn Biorefineries*

D. Alekel (PI, Food Science & Human Nutrition), **Kenneth Koehler** (Statistics), **\$60,144** from **National Institutes of Health, NIAMS** – *Bone Response to Soy Isoflavones in Women*

Corey Drake (PI, Curriculum & Instruction), **\$39,237** from **National Science Foundation** – *CAREER: Constructing Coherence: Elementary Teachers Strategies for Using Standards-Based Mathematics Curriculum Materials*

Corey Drake (PI, Curriculum & Instruction), **\$101,481** from **National Science Foundation** – *CAREER: Constructing Coherence: Elementary Teachers' Strategies for Using Standards-Based Mathematics Curriculum Materials*

Alejandro Andreotti (PI, Curriculum & Instruction), **\$23,614** from **Michigan State University** – *CAREER: Discourse Analysis: A Catalyst for Reflective Inquiry in Mathematics*

Diane Birt (PI, Food Science & Human Nutrition), **Eve Wurtele** (Genetics, Development & Cell Biology), **Basil Nikolau** (Biochemistry, Biophysics & Molecular Biology), **George Kraus** (Chemistry), **Philip Dixon** (Statistics), **Suzanne Hendrich** (Food Science & Human Nutrition), **Marian Kohut** (Kinesiology), **Patricia Murphy** (Food Science & Human Nutrition), **Michael Wannemuehler** (Veterinary Microbiology & Preventive Medicine), **\$1,420,261** from **National Institutes of Health** – *Center for Research on Botanical Dietary Supplements*

Jacobus Lempers (PI, Human Development & Family Studies), **\$721,459** from **Iowa Department of Human Services** – *Child Support Training BOC-07-021*

Mary Brotherson (PI, Human Development & Family Studies), **Gayle Luze** (Human Development & Family Studies), **Carla Peterson** (Human Development & Family Studies), **Carl Smith** (Curriculum & Instruction), **\$199,934** from **Department of Education** – *Collaborative Leadership Training Program: Early Childhood Special Education*

Rand Conger (PI, Psychology), **Frederick Lorenz** (Sociology), **K. Wickrama** (Human Development & Family Studies), **484,452** from **National Institutes of Health** – *Critical Transitions in Rural Families at Risk*

Gregory Welk (PI, Kinesiology), **\$8,781** from **The Cooper Institute** – *Derivation of Aerobic Fitness Cutpoints Using LMS and ROC Analyses: Application to FITNESSGRAM*

Gary Phye (PI, Curriculum & Instruction), **\$62,574** from **Heartland Area Education Agency** – *E2T2 Consortium Evaluation Requirements: Making the Iowa Professional Development Model Work*

Gregory Welk (PI, Kinesiology), **\$6,000** from **Bodymedia, Inc.** – *Energy Expenditure Validation*

Susan Hegland (PI, Human Development & Family Studies), **Carla Peterson** (Human Development & Family Studies), **\$252,077** from **Iowa Department of Human Services** – *Environmental Rating Scale Assessment Project*

Mari Kemis (PI, Research Institute for Studies in Education), **\$150,000** from **Kirkwood Community College** – *Evaluation of the Community College Summit Initiative and Community College Initiative for Egypt*

Lesia Oesterreich (PI, Human Development & Family Studies), **Sharon Mays** (Extension Area - Central), **\$13,694** from **Iowa Department of Management** – *FCCERS 101-Family Child Care Environment Rating Scale Training*

Suzanne Hendrich (PI, Food Science & Human Nutrition), **\$181,237** from **Archer Daniels Midland Company** – *Fibersol-2 Clinical Trials Related to Appetite*

Sam Beattie (PI, Food Science & Human Nutrition), **Ruth Litchfield** (Food Science & Human Nutrition), **\$230,660** from **University of Nebraska** – *Food Safety for Families with Young Children*

Tong Wang (PI, Food Science & Human Nutrition), **Hongwei Xin** (Agricultural & Biosystems Engineering), **\$48,366** from **Iowa Egg Council** – *Further Enhancing Nutritional Value of Eggs by Incorporating Stearidonic Acid, Lutein, and Tocotrienols Through Feeding*

Megan Murphy (PI, Human Development & Family Studies), **\$20,213** from **Lutheran Social Services of Iowa** – *Graduate Assistantship with Lutheran Social Services of Iowa*

Jay-Lin Jane (PI, Food Science & Human Nutrition), **\$22,439** from **Department of Agriculture, ARS** – *Granular Development and Value-Added Utilization of Gem Line Starch*

Suzanne Hendrich (PI, Food Science & Human Nutrition), **\$3,000** from **Iowa Department of Economic Development** – *Gut Health: Microbes, Immunity, Diet, Exercise, and Disease Prevention Symposium*

Jacobus Lempers (PI, Human Development & Family Studies), **\$1,458,858** from **Iowa Department of Human Services** – *Home and Community Based Services Extension*

Janeann Stout (PI, Extension to Families), **Cynthia Fletcher** (Human Development & Family Studies), **Ruth Freeman** (Extension to Families), **\$300,000** from **Northwest Area Foundation** – *Horizons Community Implementation Project Phase III*

Diane Birt (PI, Food Science & Human Nutrition), **\$447,253** from **Department of Agriculture, CSREES** – *Human Nutrition, IA*

Gregory Welk (PI, Kinesiology), **\$21,185** from **Iowa Department of Public Health** – *IDPH Iowans Fit for Life Project*

Ersan Ustundag (PI, Materials Science & Engineering), **Lawrence Genalo** (Materials Science & Engineering), **Denise Schmidt** (Curriculum & Instruction), **\$83,396** from **California Institute of Technology** – *IMR - MIP DANSE*

Mary Yearns (PI, Human Development & Family Studies), **Evelyn Beavers** (Family & Consumer Sciences Extension), **\$5,500** from **Auburn University** – *Iowa Healthy Homes Project*

Katherine Thomas (PI, Kinesiology), **Warren Franke** (Kinesiology), **Ruth Litchfield** (Food Science & Human Nutrition), **Catherine Strohbahn** (Apparel, Educational Studies & Hospitality Management), **\$383,187** from **Centers for Disease Control and Prevention** – *Iowa Initiative for Healthier Schools and Student Wellness*

Carla Peterson (PI, Human Development & Family Studies), **\$255,732** from **University of Northern Iowa** – *Iowa Mathematics and Sciences Education Partnership--Iowa State University Campus Coordination*

Lesia Oesterreich (PI, Human Development & Family Studies), **Sharon Mays** (Extension Area - Central), **\$649,361** from **Iowa Department of Human Services** – *Iowa QRS Environmental Rating Scale Training*

Gary Phye (PI, Curriculum & Instruction), **Arlene Delamora** (Curriculum & Instruction), **\$213,365** from **Iowa Department of Education** – *Iowa's Reading First Program State Evaluation*

Linda Niehm (PI, Apparel, Educational Studies & Hospitality Management), **Ann Fiore** (Apparel, Educational Studies & Hospitality Management), **\$13,336** from **Iowa Department of Economic Development** – *Main Street Makeover Marathon*

Marcia Rosenbusch (PI, Curriculum & Instruction), **Eric Shepherd** (World Languages & Cultures), **\$59,968** from **National Security Agency** – *Mentoring and Leadership for K-12 Chinese Teachers*

Eve Wurtele (PI, Genetics, Development & Cell Biology), **Diane Bassham** (Genetics, Development & Cell Biology), **Julie Dickerson** (Electrical & Computer Engineering), **Steven Herrstadt** (Art & Design), **Joanne Olson** (Curriculum & Instruction), **\$252,013** from **National Institutes of Health** – *Metalblast: A Cell and Metabolic Biology Interactive Learning Environment for High School Students*

Tong Wang (PI, Food Science & Human Nutrition), **\$23,105** from **Iowa Egg Council** – *Modification of Egg Yolk Protein for Improved Iron Bioavailability*

Mary Yearns (PI, Human Development & Family Studies), **\$15,500** from **Iowa Department of Public Health** – *Module for Livable Communities and Universal Design*

Gary Munkvold (PI, Plant Pathology), **Anthony Pometto** (Food Science & Human Nutrition), **\$378,000** from **Department of Agriculture, CSREES** – *Mycotoxin Risks Associated with Ethanol Co-Products from Conventional vs Biotechnology-Derived Corn Grain*

Marcia Rosenbusch (PI, Curriculum & Instruction), **\$331,000** from **Department of Education** – *National K-12 Foreign Language Resource Center*

Joe Colletti (PI, Agriculture Administration), **Lawrence Johnson** (Food Science & Human Nutrition), **Anthony Pometto** (Food Science & Human Nutrition), **Robert Brown** (Mechanical Engineering), **\$208,348** from **Department of Agriculture, CSREES** – *New Century Farm*

Lesia Oesterreich (PI, Human Development & Family Studies), **\$178,923** from **Iowa Department of Management** – *New Staff Orientation for Child Care Center Programs, 2008-2009*

Ruth Litchfield (PI, Food Science & Human Nutrition), **\$148,909** from **Wellmark Foundation** – *Promoting Health Literacy Through the School Nutrition Environment*

Lawrence Johnson (PI, Food Science & Human Nutrition), **Charles Glatz** (Chemical & Biological Engineering), **Patricia Murphy** (Food Science & Human Nutrition), **Monlin Kuo** (Natural Resource Ecology & Management), **Stephanie Jung** (Food Science & Human Nutrition), **Michael Spurlock** (Food Science & Human Nutrition), **Tong Wang** (Food Science & Human Nutrition), **\$581,522** from **Department of Agriculture, CSREES** – *Protein Utilization, IA: Advanced Soybean Biorefineries*

Frederick Lorenz (PI, Psychology), **K. Wickrama** (Human Development & Family Studies), **\$602,937** from **National Institutes of Health** – *Relationship Development and Health in Young Adults*

Carolyn Cutrona (PI, Psychology), **Daniel Russell** (Human Development & Family Studies), **\$484,813** from **National Institutes of Health, NIMH** – *Resiliency and Vulnerability in African American Parents*

Jay-Lin Jane (PI, Food Science & Human Nutrition), **\$40,000** from **Grain Processing Corporation** – *Resistant and Slowly Digestible Starch from Cornstarch Through Ingredient Processing*

Suzanne Hendrich (PI, Food Science & Human Nutrition), **\$6,201** from **Caremoli** – *Review Papers on Health Effects of Natural Grain and Legume Starch Processing and Omega-3 Fatty Acid Fortification*

Linda Niehm (PI, Apparel, Educational Studies & Hospitality Management), **Michael Larsen** (Statistics), **Dianne Anderson** (Center for Survey Statistics & Methodology), **\$500,000** from **Department of Agriculture, CSREES** – *Rural Community Resiliency: Role of the Retail Sector in Easing Sudden and Slow Motion Economic Shocks*

Jacobus Lempers (PI, Human Development & Family Studies), **\$66,960** from **Iowa Department of Human Services** – *Service Training Contract Amendment 1*

Jacobus Lempers (PI, Human Development & Family Studies), **\$9,000** from **Iowa Department of Human Services** – *Service Training Contract Amendment 2*

Jacobus Lempers (PI, Human Development & Family Studies), **\$1,288,818** from **Iowa Department of Human Services** – *Service Training FOSU-09-001*

Gary Phye (PI, Curriculum & Instruction), **\$20,000** from **Iowa Department of Education** – *Special Education Teacher Recruitment and Retention Study*

K. Wickrama (PI, Human Development & Family Studies), **\$45,357** from **Florida State University** – *Taking the Lead in Community Wellness: Improving Dietary Behaviors of Mid-Life and Older African Americans*

Jacobus Lempers (PI, Human Development & Family Studies), **\$280,467** from **Iowa Department of Human Services** – *Targeted Case Management BCM-08-005*

Denise Schmidt (PI, Curriculum & Instruction), **Dale Niederhauser** (Curriculum & Instruction), **Connie Hargrave** (Curriculum & Instruction), **\$374,998** from **Department of State** – *Turkish Student Teacher Internship Project*

Matthew Rowling (PI, Food Science & Human Nutrition), **\$71,500** from **National Institutes of Health** – *Uptake of Vitamin A and Breast Cancer*