

FUNDED RESEARCH - 2002

Category	Project Title	ID#	Investigator	Organization
Animal Welfare	Enhancing Sow Welfare with High Fiber Diets and Frequent Feeding	02-158	Johnston, Lee J.	Regents of the University of Minnesota
Animal Welfare	Effect of Weaning Age and Co-Mingling after the Nursery Phase on Humoral and Behavioral Indicators of Well-Being and on Growth Performance	02-163	Maxwell, Charles V.	University of Arkansas
Animal Welfare	Comparison of Housing Systems for Gestating Sows	02-164	Deen, John	Regents of the University of Minnesota
Animal Welfare	Well-Being of Early Weaned Piglets: Assessment of Seasonal Effects on Performance	02-166	Lewis, Nora	University of Manitoba
Animal Welfare	Factors Affecting the Behaviour of Early-Weaned Piglets	02-169	Widowski, Tina	University of Guelph
Animal Welfare	Effect of Space Allowance on Group-Housed Dry Sows	02-173	Salak-Johnson, Janeen L.	University of Illinois
Animal Welfare	Characterization of Sow Longevity and the Developmental Factors that Influence It	02-174	Bates, Ronald O.	Michigan State University
Animal Welfare	Developing Criteria for Timely Euthanasia Decision Making	02-175	Morrow, W.E. Morgan	North Carolina State University
Animal Welfare	Development of Computer Template(s) to Economically Assess Alternatives to Individual Housing of Gestating Sows	02-178	Levis, Donald G.	Ohio State University
Antimicrobial Use & Resistance	The Role of Sub-Therapeutic Chlortetracycline on the Prevalence and Antimicrobial Resistance of Salmonella Enterica Isolated from Swine	02-037	Funk, Julie	Ohio State University
Antimicrobial Use & Resistance	Risk Factors for the Occurrence of drug resistant Salmonella spp. in commercial swine production	02-141	Bahnson, Peter B.	University of Wisconsin-Madison
Antimicrobial Use & Resistance	Use of a pig-derived competitive exclusion culture as an alternative to antibiotics to control colibacillosis in weaned pigs	02-196	Harvey, Roger B.	USDA, ARS, Southern Plains Area
Antimicrobial Use & Resistance	Effect of Probiotics in the Health and Performance of Nursery Pigs Raised in Conventional or Antibiotic/Growth Promoter Free Farms	02-197	Morrison, Robert B.	Regents of the University of Minnesota
Antimicrobial Use & Resistance	Effect of Probiotic Lactic Acid Bacteria on Health, Growth and Survival in the Weaned Pig	02-208	Ward, Lucy Ann	Ohio State University
Economics	Economic Impact of PRRS on the Cost of Pork Production	02-223	Kliebenstein, James B.	Iowa State University
Environment/Odor	Air Emissions from Swine Production Facilities: Assessment of Science and Market-Based Solutions	02-222	Kranz, Rhonda	Ecological Society of America
Environment/Odor	Measurement of Ammonia Emissions from Swine Production Facilities and from Manure Application to Cropland	02-040	Hatfield, Jerry L.	USDA, ARS, Midwest Area
Environment/Odor	Best Management Practices Research in a Watershed with Swine Production Facilities	02-042	Tomer, Mark D.	USDA, ARS, Midwest Area
Environment/Odor	Evaluation of Emerging Technologies in Swine Manure Management	02-097	Baidoo, Samuel K.	Regents of the University of Minnesota
Environment/Odor	Dietary Crude protein reduction: Impact on ammonium excretion and gastro-intestinal functions in the pig	02-112	Trottier, Nathalie L.	Michigan State University
Environment/Odor	Field-scale Evaluation of the Value of Manure on Soil Quality and Crop Production	02-216	Hatfield, Jerry L.	USDA, ARS, Midwest Area
Environment/Public Health	Recovery and Identification of Airborne Microorganisms in Swine Facilities Using Selective Agar and Thin Agar Layer (TAL) Resuscitation Media	02-023	Fung, Daniel Y.C.	Kansas State University

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Environment/Public Health	Fate and Transport of E. coli in soil and subsurface settings: Swine Waste Management within the context of TMDL's	02-055	Turco, Ronald	Purdue University
Environment/Public Health	Nutrient and Pathogen Losses to Subsurface Tile Drainage from Swine Manure	02-095	Randall, Gyles W.	Regents of the University of Minnesota
Market Research	Competitive Disparities For U.S. Pork in Export Markets	02-146	Belk, Keith E.	Colorado State University
Pork Quality	Infrared Thermography of Market Hogs as a Predictor of Pork Quality	02-025	Dikeman, Michael E.	Kansas State University
Pork Quality	Role of Muscle Cytoskeletal and Intermediate Filament Proteins in the Development of Soft and Exudative Pork	02-030	Huff-Lonergan, Elisabeth	Iowa State University
Pork Quality	Impact of Proteolysis on pH Decline and Water Holding Capacity of Fresh Pork	02-034	Huff-Lonergan, Elisabeth	Iowa State University
Pork Quality	Prevention of Pinking and Off-Odor in Irradiated Pork Loin	02-038	Ahn, Dong Uk	Iowa State University
Pork Quality	Relationship Between Glycolytic Oscillations and Pork Color and Water-holding Capacity	02-082	Doumit, Matthew E.	Michigan State University
Pork Quality	Effect of Downer on Pork Quality	02-107	McKeith, Floyd K.	University of Illinois
Pork Quality	Pork Muscle Profiling Study 2002	02-188-yr1	Sebranek, Joseph G.	Iowa State University
Pork Quality	Pork Muscle Profiling Study 2002-YR 2	02-188-yr2	Sebranek, Joseph G.	Iowa State University
Pork Quality	Pork Muscle Profiling Study	02-189	Buege, Dennis R.	University of Wisconsin-Madison
Pork Quality	Pork Muscle Profiling Study -YR2	02-189-yr2	Buege, Dennis R.	University of Wisconsin-Madison
Pork Quality	Pork Muscle Profiling Study 2002	02-190	Doumit, Matthew E.	Michigan State University
Pork Quality	Pork Muscle Profiling Study 2002 -YR2	02-190-yr2	Doumit, Matthew E.	Michigan State University
Pork Safety/Post-Harvest	Optimization of Antimicrobials for Control of Listeria Monocytogenes and for Acceptable Pork Product Quality	02-002	Sofos, John N.	Colorado State University
Pork Safety/Post-Harvest	The Development of a Novel Immunosensor to Detect Salmonella	02-027	Grant, Sheila	University of Missouri - Columbia
Pork Safety/Post-Harvest	Surface Material, Temperature and Soil Effects on Pathogen Growth in Condensate	02-048	Kornacki, Jeffrey Lee	University of Georgia
Pork Safety/Post-Harvest	Evaluation of the Efficacy of Various Intervention Methods Used by Small Processors for Pork Carcasses Contaminated with Salmonella spp.	02-108	Mikel, William Benjy	University of Kentucky
Pork Safety/Post-Harvest	Microbial Profile of Overhead Surfaces and Condensate in Pork Processing Plants	02-139	Mills, Edward	Pennsylvania State University
Pork Safety/Post-Harvest	Effects of Commercial Chilling Methods for Reducing Bacteria on Pork Carcasses	02-140	Cutter, Catherine N.	Pennsylvania State University
Pork Safety/Post-Harvest	The Role of Pork as a Vehicle for Confirmed Foodborne Disease Outbreaks in the United States, 1990-1997	02-145	Hedberg, Craig	Regents of the University of Minnesota
Pork Safety/Pre-Harvest	Corn Particle Size and Pelleting Influence on Fecal Shedding and Enteric Colonization of Salmonella Typhimurium	02-046	Dritz, Steven S.	Kansas State University
Pork Safety/Pre-Harvest	Effect of Chlorate Treatment on Transmission of Salmonella in Swine During Transport and Lairage	02-074	Callaway, Todd R.	USDA, ARS, Southern Plains Area
Pork Safety/Pre-Harvest	Evaluation of antimicrobial alternatives to reduce the development of antibiotic resistance	02-084	Ragland, Darryl	Purdue University
Pork Safety/Pre-Harvest	Productivity and Economic Impacts of Feedgrade Antibiotic Use in Pork Production	02-094	McNamara, Paul E.	University of Illinois

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Pork Safety/Pre-Harvest	Use of Molecular Assays to Assess Toxoplasma gondii burden in commercial Meat Samples	02-101	Lunney, Joan K.	USDA, ARS, Beltsville Area
Pork Safety/Pre-Harvest	Analysis of a More Restricted Antimicrobial Access Policy in Pork Production	02-104	Hayes, Dermot	Iowa State University
Pork Safety/Pre-Harvest	Vaccination to Prevent Acute Infection by Salmonella in Transport and Lairage Prior to Slaughter	02-119	Harris, D.L. Hank	Iowa State University
Pork Safety/Pre-Harvest	Defining the Health Benefits of the Nutritional Interaction Between Conjugated Linoleic Acid and Fish Oil	02-124	Bassaganya-Riera, Josep	Iowa State University
Pork Safety/Pre-Harvest	Eliminating the Abattoir Pen Lairages to Decrease the Prevalence of Salmonella in Cull Sows	02-129	McKean, James D.	Iowa State University
Pork Safety/Pre-Harvest	Investigating the Genetic Relatedness among Salmonella Species Isolated in Transportation Trucks, Holding Pens and From Swine at Slaughter	02-135	O'Connor, Annette	Iowa State University
Pork Safety/Pre-Harvest	Determination of the Pharmacokinetics of Procaine Penicillin in Swine Administered by Intra-Muscular Injection and with a Needleless Injection Device	02-136	Apley, Michael	Iowa State University
Pork Safety/Pre-Harvest	On-Farm Evaluation of Diet Acidification	02-204	Pettigrew, James E.	University of Illinois
Pork Safety/Pre-Harvest	Inoculation of Bacterial Pathogens to Control Disease	02-206	Pijoan, Carlos	Regents of the University of Minnesota
Swine Health	Immunity Against PRRS Virus - What is the Role of 'Auto-Anti-Idiotypic' antibody?	02-015	Zhou, En-Min	Iowa State University
Swine Health	Protective Immunity against Porcine Reproductive and Respiratory Syndrome Virus obtained by Passive Administration of Antibodies: Optimization of the Conditions	02-033	Osorio, F. A.	University of Nebraska-Lincoln
Swine Health	Evaluation of a Chlorate Treatment on Post-Weaning Diarrhea and Edema Disease Caused by E. Coli in Weaned pigs	02-061	Edrington, Tom S.	USDA, ARS, Southern Plains Area
Swine Health	Survey of the Molecular Epidemiology of Haemophilus Parasuis	02-079	Pijoan, Carlos	Regents of the University of Minnesota
Swine Health	Evaluation of Prevalence of Mycoplasma Hyopneumoniae in Different Parity Sows as a Preliminary Tool for Eradication	02-081	Pijoan, Carlos	Regents of the University of Minnesota
Swine Health	A Prospective Observational Study of Periparturient Sow Mortality	02-087	Deen, John	Regents of the University of Minnesota
Swine Health	Evaluation of the role of Mosquitoes as Biological Vectors of Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)	02-091	Dee, Scott A.	Regents of the University of Minnesota
Swine Health	A Population's Approach to Understanding PRRSV Persistence and Immunity	02-098	Dee, Scott A.	Regents of the University of Minnesota
Swine Health	Clostridium difficile as a Cause of Enteritis in Neonatal Pigs	02-102	Songer, J. Glenn	University of Arizona
Swine Health	Characterization of West Nile Virus Infection in Swine	02-118	Platt, Kenneth B.	Iowa State University
Swine Health	Assessment of Mycoplasma Hyopneumoniae Strain Variability and Relationship to Virulence	02-126	Minion, F. Chris	Iowa State University
Swine Health	Studies on PRRSV vaccination: Interleukin-12 to Enhance the Immune Response to Killed Vaccine and Combination Vaccine with MLV and Killed Vaccines	02-127	Thacker, Eileen	Iowa State University
Swine Health	PCV-2 Viral DNAs are Infectious for Gnotobiotic Swine	02-132	Krakowka, Steven	Ohio State University
Swine Health	Determination of Toxoplasma gondii Antibody Prevalence in Midwest Market Swine	02-147	McKean, James D.	Iowa State University

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Swine Health	Characterization of West Nile Virus Infection in Swine - Bowen	02-186	Bowen, Richard	Colorado State University
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Breeding & Genetics	Genetic Resistance to Porcine Reproductive Respiratory Syndrome virus (PRRSV)	02-191	Johnson, Rodger	University of Nebraska-Lincoln
Economics	Community Impacts of Livestock Processing Facilities	02-149	Otto, Daniel	Iowa State University
Environment/Odor	Direct Measurement of Dietary and Management Strategies Impacts on Ammonia Volatilization	02-013	Powers, Wendy	Iowa State University
Environment/Odor	Conversion of Hog Manure to Diesel Fuel	02-028	Russell, Richard	West Virginia University
Environment/Odor	Establishing Effects of application of Swine Manure on Crop Leaf Damage to Growing Crops	02-193	Shapiro, Charles	University of Nebraska-Lincoln
Environment/Odor	A Nebraska Odor Footprint Tool for Planning Pork Facilities	02-195	Koelsch, Rick	University of Nebraska-Lincoln
Environment/Public Health	Determination of the Presence and Infectivity of Swine Hepatitis E Virus (HEV) in Swine Manure Storage Facilities and Nearby Water Sources	02-123	Halbur, Patrick G.	Iowa State University
Environment/Public Health	Characterization of VOCs and particulates from Swine Finishing Facilities and Relationship of These Compounds to Human Health	02-148	Powers, Wendy	Iowa State University
Pork Quality	The effect of long-term selection for reduced backfat and increased loin muscle area on meat and eating quality traits in Duroc swine	02-221	Baas, Tom J.	Iowa State University
Pork Quality	Identification of PSE - Associated Proteins by Proteomic Analysis	02-031	Jones, Steven J.	University of Nebraska-Lincoln
Pork Quality	Optimization of Commercial Harvest Processes that Affect Pork Water Holding Capacity and Color	02-032	Lonergan, Steven	Iowa State University
Pork Safety/Pre-Harvest	Determination of Salmonella Classification Levels for Selected Iowa Swine Herds and an Evaluation of Production Risk Factors for Classification Status	02-187	McKean, James D.	Iowa State University
Production Research	Zone Heating for Wean-to-Finish Facilities: A Performance Comparison	02-194	Stowell, Richard R.	University of Nebraska-Lincoln
Swine Health	Effect of Sow Dietary Glutamine Intake on Subsequent Nursery Pig Growth After an Intestinal Disease Challenge	02-192	Miller, Phillip S.	University of Nebraska-Lincoln
Swine Health	Pilot Project to Develop an Effective System for Detection of Emerging Animal Diseases	02-218	Engle, Mark	National Pork Board
Swine Health	Detection, Predictors, Immune Mechanisms and Prevalence of PRRSV Persistence in Boars	02-220	Christopher-Hennings, Jane	South Dakota State University