

FUNDED RESEARCH - 2001

Category	Project Title	ID#	Investigator	Organization
Breeding & Genetics	The effect of the hydrogen ion concentration evaluation methodology on genetic prediction and fixed effects estimation when assessing muscle quality in pork	01-153	Stalder, Kenneth J.	University of Tennessee Agricultural Experiment Station
Environment/Odor	Optimizing the Placement of Practices that Improve Water Quality Within a Watershed	01-024	Tomer, Mark D.	USDA, ARS, Midwest Area
Environment/Odor	Odor and Dust Reduction of Swine Building Exhaust Air	01-039	Hellickson, Mylo A.	South Dakota State University
Environment/Odor	Development of Methods to Measure Dust (PM10) and Ammonia Emissions from Minnesota Pig Facilities	01-074	Jacobson, Larry D.	Regents of the University of Minnesota
Environment/Odor	The Development of a Biofilter System for Ammonia and VOC Removal from Swine Operations	01-086	Kastner, James R	University of Georgia
Environment/Odor	Quantifying Volatile Organic Compound Interaction with Particulate Matter for the Development of Odor Transport Models	01-088	Das, K	University of Georgia
Environment/Odor	The Effect of Air Quality in Swine Finishing Facilities Upon Animal Performance and Environmental Pollution Potential	01-128	von Bernuth, Robert D.	Michigan State University
Environment/Odor	Dust and Gaseous Emissions From a Mechanically-Ventilated Swine Building	01-140	Van Wicklen, Garrett L.	University of Georgia
Environment/Odor	Odor Control Technology Evaluation: Geotextile Fabric Cover	01-150	Clanton, Charles J.	Regents of the University of Minnesota
Environment/Odor	Survey Monitoring of Environmental Factors from Bedded Swine Systems	01-161	Harmon, Jay	Iowa State University
Environment/Odor	Ammonia, Nitrous Oxide and Methane Emissions from Deep Bedded Hoop Structures	01-162	Richard, Tom L.	Iowa State University
Environment/Public Health	Assessment of the Zoonotic Risk of Swine Hepatitis E Virus Infection in Swine Veterinarians in the United States	01-004	Meng, Xiang-Jin	Virginia Polytechnic Institute and State University
Environment/Public Health	Feasibility of Transdermal, Needleless Injection Device For Prevention of Pork Carcass Defects	01-146	Sebranek, Joseph G.	Iowa State University
Environment/Public Health	Quantifying Overland and Vertical Transport of Pathogens as Affected by Vegetative Buffer Strips	01-148	Shirmohammadi, Adel	University of Maryland
Human Nutrition	Protein Intake in Potentially Insulin Resistant Adults: Impact on Glycemic and Lipoprotein Profiles	01-075	Gates, Gail E.	Oklahoma State University
Human Nutrition	Effects of a 28 days Pre-Slaughter Withdrawal of Supplementary Dietary Vitamins and Minerals on Vitamin Content of Pork, Carcass Bone Fractures, and Bone Strength	01-130	Rozeboom, Dale W.	Michigan State University
Market Research	Analysis of Consumer Behavior Data, Market Information & Marketing Strategies to Assess Pork Demand	01-152	Capps, Oral	Texas A&M University
Market Research	The Nutritional Benefits of Pork	01C-160	Johnson, Beth	Fleishman-Hillard
Pork Quality	Supplementation of Swine Finishing Rations with a Unique Antioxidant (Alpha-Lipoic Acid) to Improve Fresh Pork Quality and Shelf Stability	01-045	Berg, Eric P.	University of Missouri - Columbia
Pork Quality	Influence of Harvest Processes on Pork Loin and Ham Quality	01-093	Lonergan, Steven	Iowa State University
Pork Quality	Novel Approach to Controlling Water-Holding Capacity and pH Decline in Pork: The Role of Dietary Lipoic Acid in Calcium Regulation and Glycogen Storage	01-095	Huff-Lonergan, Elisabeth	Iowa State University
Pork Quality	Interaction of Non-Meat Ingredients in Enhanced Pork Loin Chops	01-101	Miller, Rhonda K.	Texas A&M University

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Pork Quality	Optimizing Chilling Using Numerical Modeling	01-113	Briggs, Jenni L.	Iowa State University
Pork Quality	Biochemical Characterization of Pork Quality	01-117	Doumit, Matthew E.	Michigan State University
Pork Quality	Identification and Traceability for the Pork Industry - A Proposal for a Feasibility Study	01-158	Geiger, Randall	Iowa State University
Pork Safety/Post-Harvest	Optimization of Electrolyzed Oxidizing Water and Comparison with Other Antimicrobial Compounds to Reduce Pathogens on Fresh or Further Processed Pork Products	01-070	Cutter, Catherine N.	Pennsylvania State University
Pork Safety/Post-Harvest	Effect of Ozone on Listeria Monocytogenes and Shelf-Life of Ready-to-Eat Meat Products (Ham/Hot Dogs)	01-081	Reilly, Siobhan	Oklahoma State University
Pork Safety/Post-Harvest	Post-Process Pasteurization of Packaged, Ready-To-Eat Pork Products for Control of Listeria Monocytogenes	01-110	Thippareddi, H.	Kansas State University
Pork Safety/Post-Harvest	Competitive Inhibition of Listeria monocytogenes in Ready to Eat Pork Products, Phase II	01-114	Brashears, Mindy	Texas Tech University
Pork Safety/Post-Harvest	Validation of Temperature Parameters as CCPs During Pork Fabrication	01-118	Brashears, Mindy	Texas Tech University
Pork Safety/Post-Harvest	Development of appropriate Intervention Methods to Reduce the Occurance of Pathogenic Bacteria on Country-Cured Hams	01-143	Mikel, William Benjy	University of Kentucky
Pork Safety/Pre-Harvest	Effect of Antibiotic Regimens on Resistance in Salmonella and Other Bacteria in Swine	01-033	Mathew, Alan G.	University of Tennessee Agricultural Experiment Station
Pork Safety/Pre-Harvest	Alternative Strategies for Utilizing Antimicrobials as Growth Promotants	01-044	Hathaway, Marcia	Regents of the University of Minnesota
Pork Safety/Pre-Harvest	Validation of a Diagnostic Test to Identify Salmonella Enterica in Swine: Preliminary Comparison of Fecal Culture and Serum Antibody Detection	01-063	Funk, Julie	Ohio State University
Pork Safety/Pre-Harvest	Lactobacillus Acidophilus as Probiotic to Control Salmonella in Swine	01-077	Gilliland, Stanley E.	Oklahoma State University
Pork Safety/Pre-Harvest	Evaluation of Toxo TaqMan Assay for Use in Detection of SwineToxoplasmosis	01-082	Lunney, Joan K.	USDA, ARS, Beltsville Area
Pork Safety/Pre-Harvest	A Rapid and Specific Test for Salmonella Serovars with Particular Reference to Salmonella Choleraesuis serovar C1	01-107	Oliver, Stephen P.	University of Tennessee Agricultural Experiment Station
Pork Safety/Pre-Harvest	Conjugated Linoleic Acid: A Dietary Immune Modulator that Decreases Intestinal Inflammation	01-134	Bassaganya-Riera, Josep	Iowa State University
Pork Safety/Pre-Harvest	Is the Source of Water on a Swine Farm a Risk Factor for Infection with Toxoplasma gondii?	01-144	Patton, Sharon	University of Tennessee Agricultural Experiment Station
Pork Safety/Pre-Harvest	A Survey of Patterns and Persistence of Antimicrobial Resistance on Swine Farms Using Different Antimicrobial Use Strategies	01-147	Reeves, David E.	University of Georgia
Pork Safety/Pre-Harvest	Developing Standardization Procedures and Conductin Product Testing for Veterinary-Use Hypodermic Devices - Phase II	01-151	Hoff, Steven J.	Iowa State University
Swine Health	A Plan for Obtaining More Accurate and Specific Results on PRRSV Serological Tests When Using Commercial ELISA's	01-007	Osorio, F. A.	University of Nebraska-Lincoln
Swine Health	Immunosuppression, PCV-2 infection and PMWS	01-009	Krakovka, Steven	Ohio State University
Swine Health	Human Transmission of Enterotoxigenic Escherichia coli from Infected to Non-Infected pigs	01-011	Amass, Sandra F.	Purdue University

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Swine Health	Determination of Effective Protocols for Cleaning Processing Tools	01-016	Alvarez, Roberta	Purdue University
Swine Health	Cell-mediate immune Response Against Lawsonia Intracellularis in Pigs	01-041	Gebhart, Connie C.	Regents of the University of Minnesota
Swine Health	The Effect of Strain Recombination on the Virulence of Porcine Reproductive and Respiratory Syndrome Virus	01-046	Mengeling, William L.	USDA, ARS, Midwest Area
Swine Health	PRDC Pathogen Identification by Genome Microarray	01-069	Faaberg, Kay S.	Regents of the University of Minnesota
Swine Health	Genomic Quasispecies Associated with the Persistence of PRRS Virus	01-102	Benfield, David A.	South Dakota State University
Swine Health	PRRS Eradication III: Determining the Duration of PRRSV Persistence in Breeding Age Swine	01-123	Dee, Scott A.	Regents of the University of Minnesota
Swine Health	Comparative Pathogenicity of Porcine Circovirus Type 2 Isolates From Healthy Pigs and Pigs With Severe Postweaning Multisystemic Wasting Syndrome (PMWS)	01-133	Halbur, Patrick G.	Iowa State University
Swine Health	Development of Improved Diagnostic PCR assays for Mycoplasma Hypopneumonie	01-135	Thacker, Eileen	Iowa State University
Swine Health	Investigation of the Occurrence of Suspected False PRRSV Positive Animals	01-138	Yoon, Kyoung-Jin	Iowa State University
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Breeding & Genetics	Litter Size Produced by Gilts Divergently Selected on Reproductive Components for Three Generations	01-149	Safranski, Tim	University of Missouri - Columbia
Pork Quality	Comparison of Grain Sources (Barley, White Corn and Yellow Corn) for Swine Diets and Their Effects on Meat Quality and Production Traits	01-156	Mabry, John	Iowa State University
Pork Quality	An Assessment of the Use of Pork in the Processed Meat Industry	01-159	Marple, Dennis	Iowa State University
Pork Safety/Pre-Harvest	Dietary Manipulation as Method of Modifying Intestinal Bacteria and Reducing the Need for Subtherapeutic Administration of Conventional Antibiotics	01-060	Howard, Michael D.	USDA, ARS, Midwest Area
Pork Safety/Pre-Harvest	Conjugated Linoleic Acid and Vitamin A: A Nutritional Therapy for Post-Weaning Multisystemic Wasting Syndrome	01-142	Bassaganya-Riera, Josep	Iowa State University
Reproductive & Growth Physiology	Comparison of semen delivery systems for commercial swine production in Iowa	01-154	Mabry, John	Iowa State University
Swine Health	Feasibility of DNA Vaccines for Eliciting Protection Against Pasteurella Multocida and Bordetella Bronchiseptica in Swine	01-040	Register, Karen B.	USDA, ARS, Midwest Area
Swine Health	Effect of Mycoplasma Hypopneumoniae Vaccination on Microbial Nasal Shedding in Nursery Pigs	01-050	Pijoan, Carlos	Regents of the University of Minnesota
Swine Health	Characterization of the Fetal Immune Response to PRRS Virus	01-059	Butler, John E.	University of Iowa
Swine Health	The Adjuvant Properties of E. Coli 933D and Bacterial DNA in Promoting Protective Immunity to Unrelated Enteric Pathogens	01-061	Butler, John E.	University of Iowa
Swine Health	Development of Diagnostic Tests for the Detection of Porcine Circovirus Infection	01-137	Paul, Prem S.	University of Nebraska-Lincoln
Swine Health	Haemophilus Parasuis Proteomics for Vaccine Design	01-141	Tabatabai, Louisa B.	USDA, ARS, Midwest Area