

**Agriculture  
January 2008  
Proposal Submissions**

<b>Principal Investigator</b>	<b>Sponsor</b>	<b>Title</b>	<b>Department</b>	<b>Total Amount Requested</b>
Amaral-Phillips, Donna	University of Nebraska	DAIReXNET: A Natural Dairy Information and Communication Resource	Animal and Food Sciences	\$0
Artiushin, Sergey	KY Science and Technology Co Inc	KSEF R&D Excellence: Rapid Test for S. Equi and L. Interrogans in Clinical Specimens from Horses	Veterinary Science	\$42,393
Boatright, William	Cooperative State Research Education and Extension	Formation and Reactivity of Carbon-Centered Radicals in Isolated Soy Proteins	Animal and Food Sciences	\$0
Cantor, Austin	Alltech Biotechnology Inc	Student Sponsorship Agreement for Lizza Macalintal	Animal and Food Sciences	\$26,500
Chappell, Joseph	National Institute of Health	Production of Terpene Natural Products and Advanced Structural Diversification	Plant & Soil Sciences	\$974,568
Colliver, Donald	KY Science and Technology Co Inc	KSEF R&D Excellence: Automated Weather Adaptive Response for Energy Control System (AWARE)	Biosystems & Ag Eng	\$100,000
Coolong, Timothy	Cooperative State Research Education and Extension	Engaging Cooperative Extension Personnel, Farmers, and Students in an Integrated Extension and Education Program in Organic Farming	Horticulture	\$0
Downie, Bruce	National Science Foundation	Collaborative Research: An F-box Protein Targeting PIF1 and PIF3	Horticulture	\$248,410
Forsythe, Hazel	Lexington Fayette Urban County Government	Bluegrass/Aspendale HOPE VI Revitalization	Nutrition and Food Science	\$120,000
Gates, Richard	KY Science and Technology Co Inc	KSEF R&D Excellence: Design and Development of a Small Zero-Energy House	Biosystems & Ag Eng	\$100,000
Gates, Richard	United Egg Producers	Feeding and Altering Diets for Egg Laying Hens	Biosystems & Ag Eng	\$0
Goodin, Michael	National Science Foundation	Arabidopsis 2010: Protein Networks in Plant Nucleocytoplasmic Transport	Plant Pathology	\$0
Griffin, Ashley	University of Nebraska	HorseQuest Community of Practice	Area Extension Field Programs	\$0
Hans, Jason	Greenwall Foundation	Posthumous Harvesting and Reproduction: Attitudes, Beliefs and Policy Implications	Family Studies	\$0
Harwood, James	North American Strawberry Growers Association	Food Web Slugs (Gastropoda: Pulmonata) and Generalist Predators in Strawberry Agroecosystems in Kentucky	Entomology	\$4,149

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Harwood, James	KY Science and Technology Co Inc	KSEF R&D Excellence: A Molecular Approach to Elucidate the Role of Invasive Mollusk Pests in Kentucky Agriculture	Entomology	\$95,733
Hershman, Donald	Agricultural Research Service	Uniform Trial on Integrated Management of FHB	Plant Pathology	\$7,395
Howe, Daniel	KY Science and Technology Co Inc	KSEF R&D Excellence: Gene Discovery in the Sporozoite Stage of the Equine Pathogen Sarcocystis Neurona	Veterinary Science	\$83,981
Hunt, Arthur	National Science Foundation	Collaborative Proposal: CPSF30 at the Convergence of RNA Processing, Cellular Signaling, and Development in Plants	Plant & Soil Sciences	\$0
Hunt, Arthur	National Science Foundation	Dissecting the Arabidopsis CPSF30 Homolog	Plant & Soil Sciences	\$0
Husband, Andrea	Purdue University	Strengthening Community Agrosecurity Planning	Agr Programs	\$38,500
Kachroo, Pradeep	National Science Foundation	Molecular, Genetic, and Biochemical Characterization of Oleate-Regulated Defense Gene Expression in Plants	Plant Pathology	\$0
Lucas, Patricia	North Carolina State University	Enhancement of Kentucky's IPM Manuals	Entomology	\$23,709
Lucas, Patricia	North Carolina State University	State Contact and IPM Documents for Kentucky	Entomology	\$25,000
McCulley, Rebecca	Virginia Polytechnic Institute and State University	Long-Term Fate of Nitrogen in Grassland and Agricultural Ecosystems	Plant & Soil Sciences	\$0
McCulley, Rebecca	National Science Foundation	Collaborative Research: Decomposition in Drylands: Soil Erosion and UV Interactions	Plant & Soil Sciences	\$0
Meyer, Alphonse	Agricultural Research Service	Kentucky's SARE 2008-2009 Model State Program and Professional Development Program Plan of Work	Agr Economics	\$0
Miller, Robert	Philip Morris International	Burley Tobacco Breeding and Genetics	Plant & Soil Sciences	\$600,000
Nagy, Peter	National Science Foundation	Role of Host HSP70 Chaperone Network in Plus-Strand RNA Virus Replication	RCTF-1-Plant Sciences-PlantPath	\$0
Nagy, Peter	National Science Foundation	The Role of a Host Ion Pump in RNA Virus Recombination	RCTF-1-Plant Sciences-PlantPath	\$0
Nagy, Peter	KY Science and Technology Co Inc	KSEF R&D Excellence: Identification of Anti-Prion Drugs Active against Plant Viruses	RCTF-1-Plant Sciences-PlantPath	\$0

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Omielan, Joseph	North Carolina State University	Testing and Deployment of a Web-Based Yield Loss Prediction Tool for Risk Management of Soybean Rust	Plant & Soil Sciences	\$0
Palli, Subba	National Science Foundation	Mechanism of Met Action in Juvenile Hormone Signal Transduction	Entomology	\$0
Saghaian, Sayed	Cooperative State Research Education and Extension	Food Safety Risk Management and Educational Program for Socially Disadvantaged Farmers of Fresh Fruits and Vegetables in Kentucky	Agr Economics	\$0
Smalle, Jan	National Science Foundation	Ubiquitin-Independent Proteolysis by the 20S Proteasome: Large-Scale Identification and Structural Analysis of Target Proteins	Plant & Soil Sciences	\$0
Smalle, Jan	KY Science and Technology Co Inc	KSEF R&D Excellence: Increasing Plant Size by Changing the Properties of the 26S Proteasome	Plant & Soil Sciences	\$0
Suman, Surendranath	Cooperative State Research Education and Extension	Differentiating Sarcoplasmic Proteomes of Color-Stable and Color-Labile Beef Muscles	Animal and Food Sciences	\$99,998
Suman, Surendranath	KY Science and Technology Co Inc	KSEF R&D Excellence: Proteomic Investigations on Lipid Oxidation-Induced Beef Carboxymyoglobin Oxidation	Animal and Food Sciences	\$99,994
Suman, Surendranath	Cooperative State Research Education and Extension	Characterizing Turkey Myoglobin: To Elucidate the Fundamental Basis for the Pink Color Defect in Uncured, Cooked Turkey	Animal and Food Sciences	\$476,336
Tanaka, Keiko	Cooperative State Research Education and Extension	Cross-Cultural Perspectives on Sustainability: Sustainable Agriculture and Food in Asia and Beyond	Community & Leadership Devel	\$0
Tang, Guiliang	KY Science and Technology Co Inc	KSEF R&D Excellence: Roles miRNAs in Tomato Fruit Development	Plant & Soil Sciences	\$0
Tang, Guiliang	KY Science and Technology Co Inc	KSEF Commercialization: microRNA Array Technology and microRNA Biomarkers for Various Human Diseases	Plant & Soil Sciences	\$0
Tobin, Thomas	KY Science and Technology Co Inc	KSEF Commercialization: Early Diagnosis of Fescue Toxicity	Veterinary Science	\$147,785
Vaillancourt, Lisa	Cooperative State Research Education and Extension	Use of Corn Stalk Rot Fungi for Saccharification of Corn Stover for Ethanol Production	Plant Pathology	\$399,193
Wells, Larry	Department of the Interior	Comparison of Prime Farmland Reconstruction Methods	Biosystems & Ag Eng	\$84,881
Workman, Stephen	Cooperative State Research Education and Extension	International Education and Training for Food, Fiber, and Energy Production	Biosystems & Ag Eng	\$100,000
Yuan, Ling	KY Science and Technology Co Inc	KSEF R&D Excellence: Engineering Multi-functional Lignocellulosic Digestive Enzymes	Plant & Soil Sciences	\$0

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Zhu, Hongyan	National Science Foundation	RCT1-Mediated Resistance Pathways in Medicago	Plant & Soil Sciences	\$0
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