

Agriculture  
February 2007  
Proposal Submissions

Principal Investigator	Sponsor	Title	Department	Total Amount Requested
Arthur, Mary	Department of Agriculture	McEwan Fellowship: What determines habitat invasibility in an agricultural matrix? - Temporal dynamics, spatial structures, and habitat vulnerability during plant species invasion	Forestry	\$0
Barnes, Thomas	Department of Agriculture	Rehabilitation of Native Grasslands Infested by Smooth Brome (Brome inermis) and Kentucky Bluegrass (Poa pratensis) Utilizing Herbicides, Fire and Grazing	Forestry	\$0
Barton, Christopher	KY Governors Office	Seed Grant: Techniques for establishing woody biomass plantations on surface mines as Feedstocks for Energy Production	Forestry	\$169,526
Bullard, Steven	Cooperative State Research Education and Extension	Multidisciplinary Forest Health Curriculum	Forestry	\$149,996
Chambers, Orlando	Chlorogen Inc	Field trial of transgenic plants	Ky Tobacco Research & Dev Center	\$20,400
Downie, A Bruce	National Science Foundation	Arabidopsis 2010: Collaborative Research: Regulatory networks controlling seed germination	Horticulture	\$1,075,106
Ghabrial, Said	KY Soybean Promotion Board	Epidemiology and resistance to major soybean viruses in Kentucky	Plant Pathology	\$15,000
Ghabrial, Said	University of Illinois	Soybean Health: Rust Gene Discovery Initiative	Plant Pathology	\$68,000
Goodin, Michael	National Science Foundation	A host protein interaction and localization map for a plant rhabdovirus	Plant Pathology	\$0
Grabau, Larry	KY Soybean Promotion Board	Effectiveness of Weed Control in Full-season and Double-crop Organic Soybean Crops	Plant & Soil Sciences	\$4,800
Henning, Jimmy	University of Georgia	Southern Region Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP) Model State Plan	Agr Programs	\$20,000
Herbek, James	KY Soybean Promotion Board	Economic and Agronomic Optimum Seeding Rates for Soybean	Plant & Soil Sciences	\$7,000
Hershman, Donald	North Central Soybean Research Program	Sentinel Plots to Monitor the Spread of Soybean Rust in the US Soybean Production	Plant Pathology	\$19,625
Hildebrand, David	KY Soybean Promotion Board	Producing Higher Value Soybeans with Enhanced Disease Resistance	Plant & Soil Sciences	\$55,190

Agriculture  
February 2007  
Proposal Submissions

Hildebrand, David	Department of Agriculture	Triacylglycerol Biosynthesis in Soybeans	Plant & Soil Sciences	\$391,993
Hunt, Arthur	National Science Foundation	Exploring the functions of multiple poly (A) polymerases in Arabidopsis	Plant & Soil Sciences	\$665,499
Hustedde, Ronald	KY Governor's Office of Agricultural Policy	Kentucky Entrepreneurial Coaches Institute: Expansion Into South-Central Kentucky	Community & Leadership Level	\$1,435,017
Jackson, Vanessa	Cooperative State Research Education and Extension	Building Educational Competence in the Food and Agricultural Sciences through a Coordinated Development of Service Learning Courses at the Mater's Level	Merchandising, Apparel & Textiles	\$0
Johnson, Douglas	KY Soybean Promotion Board	Migration Patterns for Soybean Aphid as Indexed by Capture in an Aphid Suction Trap.	Entomology	\$7,221
Kachroo, Pradeep	National Science Foundation	Glycerol metabolism and its role in Biotrophy versus necrotrophy in an Arabidopsis/fungal hemibiotroph model system.	Plant Pathology	\$0
Kim, Hyungsoo	National Institute of Health	Comorbidity and Retirement Transition of Older Workers	Family Studies	\$146,500
Kitchel, Tracy	Cooperative State Research Education and Extension	Expert-Novice Faculty Teaching Partners (ENFTP): Building Multi-Disciplinary Faculty Partnerships to Further the Scholarship of Learning and Teaching.	Community & Leadership Level	\$446,408
Lee, Chad	KY Soybean Promotion Board	Low Soybean Populations and Weed Control	Plant & Soil Sciences	\$10,000
Matocha, Christopher	Cooperative State Research Education and Extension	Inhibition of Fe(III) reduction by nitrate: Impact of anoxic chemical and biological Fe(II) oxidation.	Plant & Soil Sciences	\$303,650
McCulley, Rebecca	Department of Agriculture	Land use: A causal factor or passive bystander in determining invasive species distribution and abundance in rural landscapes.	Plant & Soil Sciences	\$99,943
McLeod, Kyle	Hills Pet Nutrition Inc	Essential Amino Acid and Fatty Acid Studies in Cats	Animal and Food Sciences	\$224,614
Meyer, Alphonse	Texas A&M University	Annie's Project: Risk Management Education for Kentucky Farm Women	Agr Economics	\$59,981
Nagy, Peter	National Science Foundation	Role of host Hsp70 chaperone network in plus-strand RNA virus replication	RCTF-1-Plant Sciences-PlantPath	\$0

Agriculture  
February 2007  
Proposal Submissions

Nagy, Peter	National Institute of Health	The role of host ESCRT proteins in RNA virus replication.	RCTF-1-Plant Sciences-PlantPath	\$0
Palli, Subba	KY Governors Office	Seed Grant: Genetic Engineering of Trichoderma Reesei	Entomology	\$48,300
Palli, Subba	Consortium for Plant Biotechnology Research Inc	Development of Tightly Regulated Ecdysone Receptor-Based Gene Switches	Entomology	\$370,184
Palli, Subba	National Institute of General Medical Sciences	Molecular Analysis of Juvenile Hormone Action	Entomology	\$816,000
Perry, Sharyn	Cooperative State Research Education and Extension	Mechanisms by which AGL15, a MADS-domain protein, promotes somatic embryo development	RCTF-1-Plant Sciences-Agronomy	\$341,416
Suman, Surendranath	Department of Agriculture	Mass spectrometry-based proteomic investigations on lipid oxidation-induced bovine carboxymyoglobin oxidation	Animal and Food Sciences	\$398,957
Tang, Guiliang	National Science Foundation	SGER: Role of microRNAs in control of plant life cycle: annuals versus perennials	Plant & Soil Sciences	\$0
Tavva, Venkata	Cooperative State Research Education and Extension	Regulated expression of a selectable marker gene in transgenic soybean plants	Entomology	\$354,281
Van Doren, Saratha	KY Soybean Promotion Board	Yield loss prediction model of soybean rust - development of Bastiaans coefficients	Plant & Soil Sciences	\$24,000
Wendroth, Ole	Department of Agriculture	Dynamics of Soil State Variables and Related Processes Across a Land Use Gradient in Spatial and Temporal Transition	Plant & Soil Sciences	\$324,993
Xiong, Youling	Cooperative State Research Education and Extension	Role of protein oxidation in water-binding and hydration of meat	Animal and Food Sciences	\$293,654
Xiong, Youling	KY State University	Sensory evaluation of prawns from different genetic strains	Animal and Food Sciences	\$15,000
Yuan, Ling	Department of Agriculture	Polymeric lignocellulosic hydrolases as a strategy for production of large numbers of enzymes in transgenic plants	Plant & Soil Sciences	\$375,169