

**Agriculture
July 2007
Proposal Submissions**

Principal Investigator	Sponsor	Title	Department	Total Amount Requested
Archbold, Douglas	National Science Foundation	Identification of Promoter Regions Controlling Sorbitol-Induced SORBITOL DEHYDROGENASE Expression	Horticulture	\$264,605
Bruening, William	KY Small Grain Promotion Council	Evaluation of Wheat Varieties for Differences in Straw Yield and Forage Potential	Plant & Soil Sciences	\$4,000
DeBolt, Seth	Department of Energy	Chemical Systems Biology to Dissect Cellulose Biosynthesis	Horticulture	\$0
DeBolt, Seth	Department of Energy	Efficient Digestibility of the Cellulose Polymer by Plant Modification	Horticulture	\$0
Downie, A. Bruce	National Science Foundation	Collaborative Research: An F-Box Protein Targeting PIF1 and PIF3	Horticulture	\$0
Fulcher, Amy	Department of Agriculture	IR-4 Efficacy of Plant Growth Regulators on Branch Architecture of Container-Grown Trees and Shrubs	Horticulture	\$3,000
Hildebrand, David	Department of Energy	Oilseeds as a Renewable Source of Epoxy Fatty Acids	Plant & Soil Sciences	\$0
Hildebrand, David	Department of Energy	Soybean Oil Biosynthesis	Plant & Soil Sciences	\$0
Hunt, Arthur	National Science Foundation	CPSF30 at the Convergence of RNA Processing, Cellular Signaling and Development in Plants	Plant & Soil Sciences	\$914,099
Johnson, Douglas	KY Small Grain Growers Association	Migration Patterns for Aphid Pests of Small Grains as Indexed by Capture in an Aphid Suction Trap	Entomology	\$0
Jones, Kenneth	William T Grant Foundation	An Assessment of Peer Mentoring Relationships Among High School Students	Community & Leadership Development	\$0
Karathanasis, Anastasios	KY Health Services Cabinet	Soil Morphology Training for On-site Sewage Disposal Systems	Plant & Soil Sciences	\$0
Lhotka, John	Department of Energy	Demonstrating Techniques for Establishing Woody Bioenergy Plantations on Reclaimed Surface Mined Lands	Forestry	\$0
Martin, James	KY Small Grain Promotion Council	Influence of Timing of Topdressing Nitrogen Fertilizer Relative to Application of Osprey Herbicide	Plant & Soil Sciences	\$28,000
Martin, James	KY Small Grain Promotion Council	Application Timing for Italian Ryegrass Control in Conventional and No-Tillage Wheat	Plant & Soil Sciences	\$25,000

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Meyer, Alphonse	University of Georgia	Implement Plan of Work for the Southern Region Sustainable Agriculture Research and education (SARE) Professional Development (PDP) Program	Agr Economics	\$53,317
Montross, Michael	Department of Energy	Demonstration of Sweet Sorghum to Bioethanol Using Gasification and Cellulosic conversion - Technical Area 1 - Feedstock Production	Biosystems & Ag Eng	\$0
Montross, Michael	Department of Energy	Effect of Perennial Grass Systems on Ethanol, Electricity, and Thermal Energy Production - Technical Area 1 - Feedstock Production	Biosystems & Ag Eng	\$0
Murdock, Lloyd	KY Small Grain Promotion Council	Improving Nitrogen Application Technology Under Kentucky Conditions	Plant & Soil Sciences	\$4,000
Nagy, Peter	National Science Foundation	Role of Ubiquitination and the Host ESCRT Factors in RNA Virus Replication	RCTF-1-Plant Sciences-Plant Path	\$649,147
Nah, Seugahn	University of Georgia	Improving SANs Communications to Farmers, Ranchers and Educators	Community & Leadership Development	\$31,989
Palli, Subba	Department of Energy	Regulated Expression of Ligninase and Cellulase for Degradation of Lignin and Cellulose to Fermentable Sugars	Entomology	\$0
Palli, Subba	National Institute of General Medical Sciences	Development of Safer Gene Switches for Applications in Gene Therapy	Entomology	\$0
Palli, Subba	National Science Foundation	Molecular Analysis of Cross-Talk Between 20-Hydroxy Ecdysone and Juvenile Hormone	Entomology	\$496,575
Potter, Daniel	University of Georgia	Sustainable Management for Japanese Beetles and Green June Beetles Impacting Grape Production in the Southern Region	Entomology	\$0
Rentfrow, Gregg	Mississippi State University	Letter of Intent: Evaluation of Potential Alternatives to Methyl Bromide Fumigation in Dry Cured Ham and Aged Cheese Production	Animal and Food Sciences	\$0
Roseman, Mary	National Institute Diabetes & Digestive & Kidney	Tween Obesity Prevention (TOP) Using School-Based Interventions	Nutrition and Food Science	\$0
Schwab, Gregory	KY Small Grain Growers Association	Wheat Management for Wet-Natured Soils	Plant & Soil Sciences	\$4,000
Tang, Guiliang	National Science Foundation	CAREER: Roles of Plant miRNA Duplex Structures in Gene Silencing	Plant & Soil Sciences	\$0
VanSanford, David	KY Small Grain Promotion Council	Soft Red Winter Wheat Breeding and Variety Development for Kentucky	Plant & Soil Sciences	\$30,000
Wendroth, Ole	KY Small Grain Promotion Council	In-Season Observation of Wheat Growth Status in a Farmer's Field: Continuous Change of Nitrogen Application Rate Across the Landscape as an Alternative to Small Plot Research	Plant & Soil Sciences	\$0

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Yuan, Ling	Department of Energy	Development of Multi-Functional Lignocellulosic Digestive Enzymes	Plant & Soil Sciences	\$0
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