

**Agriculture
January 2011
Proposal Submissions**

Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Archbold, Douglas	Horticulture	KY Department of Agriculture	Optimizing Orchard Strategies for Yield, Plant Health, and Fruit Quality in Organic Apple Production.	\$73,425
Archbold, Douglas	Horticulture	KY Science and Technology Co Inc	Development of a Protocol for Bioengineering Blackberries with Enhanced Pharmaceutical and Nutraceutical Value	\$99,420
Artiushin, Sergey	Veterinary Science	KY Science and Technology Co Inc	Variation in Amino Acid Sequence of Protective Antigens of Streptococcus Equi	\$62,127
Ball, Barry	Veterinary Science	KY Equine Drug Council	Use of a Third-generation GnRH Antagonist (Acyline) to Block Reproductive Behavior in Racing Thoroughbred Colts.	\$78,974
Bewley, Jeffrey	Animal and Food Sciences	Binational Agricultural Research & Development Fun	International Workshop on Opportunities and Challenges with Compost Bedded Pack Barns as an Alternative Dairy Housing System.	\$0
Bewley, Jeffrey	Animal and Food Sciences	Friends of the Farmers Market	Assessing the Potential for Compost Bedded Pack Barns in Sustainable Organic Dairy Farming Systems.	\$49,986
Cantor, Austin	Animal and Food Sciences	Alltech Biotechnology Inc	Student Sponsorship Agreement for Lizza Macalintal	\$28,620
Chambers, Thomas	Veterinary Science	KY Science and Technology Co Inc	Role of the horse in interspecies transmission of influenza viruses	\$99,496
Coolong, Timothy	Horticulture	University of Tennessee	Developing a Commercial Processing Industry for Edamame in the Eastern U.S.	\$0
Cox, Nancy	Assoc Dean Research/Director AES	Agricultural Research Service	Acquisition of Goods and Services for USDA Offices in Ag North - 2010-2011 (Personnel)	\$21,516
D'Angelo, Elisa	RCTF-1-Plant Sciences-Agronomy	KY Science and Technology Co Inc	Evaluation of Wetland Treatment Systems for Remdiating Coal Slurry Wastes	\$44,383
Fei, Songlin	Forestry	Forest Service	Understanding Geospatial Patterns of Non-Native Invasive Species in the South Using large-Scale Inventory Data (Unfunded)	\$0
Ghabrial, Said	Plant Pathology	University of Illinois	Construction of aDNA--based virus induced gene silencing tools for functional genomics of soybean seed development	\$82,096
Goodin, Michael	Plant Pathology	National Science Foundation	Rhabdovirus cell-to-cell movement complexes: multiple systems required	\$0
Han, Sung	Animal and Food Sciences	American Heart Association Great Rivers Affiliate	Atherogenic Effects of Nanoparticles (Alternative)	\$132,000

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Han, Sung	Animal and Food Sciences	American Heart Association	Atherogenic Effects of Nanoparticles	\$308,000
Hanley, Carol	Center for the Environment	National Institute of Food and Agriculture	SPECA Challenge Grants Program	\$0
Harwood, James	Entomology	University of Connecticut	Faunal and Trophic Changes in the Insect Communities Across an Elevational Gradient on Mt. Lemmon, Arizona	\$0
Harwood, James	Entomology	National Science Foundation	Uncovering multitrophic systems using new technologies	\$1,619,068
Hennig, Bernhard	Animal and Food Sciences	National Institute of Environmental Health Sciences	Nutrition and Superfund Chemical Toxicity	\$0
Hildebrand, David	Plant & Soil Sciences	KY Science and Technology Co Inc	Increasing Renewable Oil Production	\$83,472
Horohov, David	Veterinary Science	KY Science and Technology Co Inc	Identifying the role of a "metabolic master switch" in Equine Metabolic Syndrome and its implications for targeted treatment	\$77,000
Hunt, Arthur	Plant & Soil Sciences	National Science Foundation	Alternative polyadenylation and non-stop mRNAs in Arabidopsis	\$667,833
Ingram, Dewayne	Horticulture	National Institute of Food and Agriculture	Nursery Crop Production and Marketing Opportunities Unique to the Appalachian Region	\$50,000
Kachroo, Aardra	Plant Pathology	KY Science and Technology Co Inc	Towards Understanding The Mechanisms of Plant Extreme Resistance to Viruses	\$99,907
Kachroo, Pradeep	Plant Pathology	KY Science and Technology Co Inc	Control of Viral Diseases by Targeting Host Components Required for Virus Replication and/or Movement	\$99,982
Kajita, Yukie	Entomology	National Science Foundation	Comparative population genomics of native and invasive populations of predatory insects: elucidating the roles of founder effects, multiple introductions, and adaptation	\$665,547
Kurzynske, Janet	Nutrition and Food Science	National Institute of Food and Agriculture	CYFERnet SCP-Promoting Life Skills in Middle School Youth	\$654,000
Kurzynske, Janet	Nutrition and Food Science	National Institute of Food and Agriculture	CYFERnet Liason	\$1,052,000
Kurzynske, Janet	Nutrition and Food Science	National Institute of Food and Agriculture	CYFERnet - Program Component	\$1,052,000
Lhotka, Laura	Forestry	University of Tennessee	A Comprehensive Recruitment and Retention Assessment System for Forest Resource Programs	\$114,632

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MacLeod, James	Veterinary Science	KY Equine Drug Council	Articular Cartilage Stem Cells	\$100,000
Matthews, James	Animal and Food Sciences	National Science Foundation	Substrate and energy Regulation of Intestinal Transporter Expression	\$311,991
Moe, Luke	Plant & Soil Sciences	KY Science and Technology Co Inc	Bacteria and Bioethanol Fermentation: Characterizing the Impact of Bacterial Contaminants and Bacterial Community Structure on Bioethanol Fermentations Across the US	\$100,000
Mueller, Thomas	RCTF-1-Plant Sciences-Agronomy	National Institute of Food and Agriculture	CIG Preproposal	\$0
Nagy, Peter	RCTF-1-Plant Sciences-PlantPath	KY Science and Technology Co Inc	Screening of Temperature Sensitive and Deletion Libraries for Host Factors Affecting Virus Replication	\$97,909
Nagy, Peter	RCTF-1-Plant Sciences-PlantPath	National Science Foundation	key Role of the Multifunctional Translation Elongation Factor in Virus Replication	\$0
Nagy, Peter	RCTF-1-Plant Sciences-PlantPath	National Science Foundation	Viral Reprogramming of Host Lipid Synthesis to Promote Replication	\$0
Palli, Subba	Entomology	National Science Foundation	Mechansims of 20-hydroxyecdysone and juvenile hormone cross-talk	\$577,497
Perry, Sharyn	RCTF-1-Plant Sciences-Agronomy	National Science Foundation	Gene regulation by complexes of MADS-domain transcription factors and hitone deacetylase complexes in plant development	\$389,991
Pescatore, Anthony	Animal and Food Sciences	University of Nebraska	Establishing a New CoP-Small, Medium-Sized and Backyard Poultry Flocks	\$60,000
Pushkarskaya, Helen	Agr Economics	National Science Foundation	CCE: Comparative Decision Making Studies COnference	\$10,000
Ricketts, Kristina	Community & Leadership Devel	Texas A&M Research Foundation	Designing Leadership Study Abroad Programs: As Easy as PIE.	\$19,821
Ricketts, Kristina	Community & Leadership Devel	National Four H Council	Engaging Youth, Serving Community 9	\$25,000
Saghaian, Sayed	Agr Economics	National Institute of Food and Agriculture	Preparing Food Industry Professionals for US Agribusiness Expansion in India	\$150,000
Smalle, Jan	Plant & Soil Sciences	KY Science and Technology Co Inc	Regulated proteolysis of the microtubule-associated protein SPR1 and its role in microtubule dynamics, directional cell expansion and plant growth	\$94,414
Stowe, Christina	Agr Economics	KY Equine Drug Council	Towards Optimizing the Health and Well-Being of Retired Thotoughbred Racehorses	\$21,708

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Suman, Surendranath	Animal and Food Sciences	KY Science and Technology Co Inc	Proteome Changes in Kentucky Country Hams	\$99,998
Tang, Guiliang	Ky Tobacco Research & Dev Center	National Science Foundation	EAGER: TNAi Gene Discovery Tool to Randomly Generate Dominant Mutant Pools in Plants	\$295,576
Timoney, John	Veterinary Science	KY Equine Drug Council	Evaluation of Immunoreactive Proteins of Streptococcus Zooepidemicus for Potential as Vaccine Components	\$48,171
Tobin, Thomas	Veterinary Science	KY Equine Drug Council	Deuterated Internal Standards for Equine Therapeutic Medication Regulation	\$49,422
Urschel, Kristine	Animal and Food Sciences	KY Equine Drug Council	Effects of Daily Oral Dexamethasone Administration on Whole Body and Muscle Metabolism in Yearling and Mature Horses	\$99,963
Werner-Wilson, Ronald	Family Studies	National Science Foundation	Relationship between family functioning and adolescent electrical brain activity	\$98,040
Zhou, Xuguo	Entomology	KY Science and Technology Co Inc	Wood-Feeding Cockroach-A Forgotten Treasure Trove of Lignocellulolytic Biocatalysts	\$100,000
Zhou, Xuguo	Entomology	National Institute of Food and Agriculture	US-China Partnership in the Next Generation of Sustainable Pest Controls	\$150,000
Zhu, Hongyan	Plant & Soil Sciences	National Science Foundation	GEPR: Exploring Genomic Signatures of Efficient Nitrogen Fixation in the Legume-Rhizobia Symbiosis	\$1,644,320
Zhu, Hongyan	Plant & Soil Sciences	National Science Foundation	Comparative genetic analysis of pod shattering, a trait under strong human selection during legume crop domestication	\$675,767
Zhu, Hongyan	Plant & Soil Sciences	KY Science and Technology Co Inc	KSEF 2011	\$0