

**Agriculture  
February 2012  
Proposal Submissions**

<b>Principal Investigator</b>	<b>Department</b>	<b>Sponsor</b>	<b>Title</b>	<b>Total Amount Requested</b>	
Balasuriya, Udeni	Veterinary Science	Elanco Animal Health	Development of a genetically defined live attenuated equine herpesvirus-1 virus.	\$163,752	
Balasuriya, Udeni	Veterinary Science	National Institute of Food and Agriculture	Identification of genetic factors responsible for establishment of equine arteritis virus carrier state in stallions.	\$2,925,456	
Bertsch, Paul	Plant & Soil Sciences	National Science Foundation	Nanoparticle interactions with fungal spores and membrane vesicles: □ Understanding the roles of particle and receptor surface chemistry	\$317,847	
Brelsfoard, Corey	Entomology	National Institute of Allergy and Infectious Diseases	Genetic and molecular basis for filarial worm infectivity in Aedes polynesiensis	\$250,000	
Bullock, Kevin	Animal and Food Sciences	Iowa State University	National Program for Genetic Improvement of Fertility in Beef Cattle	\$231,735	
Bullock, Kevin	Animal and Food Sciences	Colorado State University	Translational Genomics to Improve Fertility of Beef Cattle	\$306,282	
Crofcheck, Czarena	Biosystems & Ag Eng	National Science Foundation	Algae System for Energy and Sustainability	\$371,330	
Goodin, Michael	Plant Pathology	National Institute of Health	Systems Analysis of Virus-Plant Interactions	\$3,992,939	
Hunt, Arthur	Plant & Soil Sciences	National Science Foundation	REU: Collaborative Research: CPSF30 at the Convergence of RNA Processing, Cellular Signaling, and Development in Plants	\$6,000	
Johnson, Douglas	Entomology	KY Soybean Promotion Board	Addressing Multiple Soybean Pest Management Issues through Integrated studies.	\$58,461	
Kachroo, Aardra	Plant Pathology	KY Soybean Promotion Board	Engineering resistance to Bean Pod Mottle Virus in soybean	\$117,389	
Kurzynske, Janet	Nutrition and Food Science	National Institute of Food and Agriculture	2012 Children Youth and Families At Risk Sustainable Community Projects	\$574,000	
Lee, Brian	Landscape Architecture	Rocky Mountain Elk Foundation	Landscape Prioritization and Conservation for Elk	\$13,946	
Lee, Chad	Plant & Soil Sciences	KY Corn Promotion Council	Comparing Corn Systems in Wide and Narrow Rows (Year 2)	\$35,000	
Matthews, James	Animal and Food Sciences	National Institute of Food and Agriculture	Identification of genotype-superior cattle for optimal performance grazing tall fescue infected with endophyte pests	\$2,563,658	
Nagy, Peter	RCTF-1-Plant Sciences-PlantPath	National Institute of Health	Diverse roles of co-opted host RNA helicases in RNA virus replication	\$382,250	

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Overhults, Douglas	Biosystems & Ag Eng	Iowa State University	Integrated Approaches to Climate Change and Variability for the Midwest Pork Industry	\$450,623	
Perry, Sharyn	RCTF-1-Plant Sciences-Agronomy	Michigan Technological University	A systems biology approach for identifying high hierarchical regulators controlling poplar wood production in response to abiotic stress	\$275,363	
Ritchey, Edwin	Plant & Soil Sciences	KY Soybean Promotion Board	An Integrated Approach to Understanding the Dynamics of Poultry Litter Use in Corn-Soybean Production Systems	\$35,000	
Suman, Surendranath	Animal and Food Sciences	Mississippi State University	Characterization of Protein Expression in Catfish Fillets with Red Pigmentation	\$40,000	
Webber, Kelly	Nutrition and Food Science	National Institute of Health	Enhancing Internet behavioral weight loss programs with portion controlled food	\$2,193,364	