INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES

Nebraska Lincoln

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Comments from Dean Gary Cunningham

I hope most of you have had the opportunity to look over the "Review of Molecular Life Sciences University of Nebraska-Lincoln", the March 25-27 report from a team of national leaders asked to advise UNL on steps we might take to strengthen our molecular life sciences. The team recognized a number of areas where UNL has already begun efforts to establish excellence. Not surprisingly these are interdisciplinary areas that have been identified by faculty with common interests and, in most cases, some history of previous productive collaborations. Although the review team felt they "lacked sufficient information and/or expertise to evaluate the university's potential to reach world class status in these areas", their report did encourage this entrepreneurial approach to defining programs where added investment could lead to national prominence.

In fact, the team recommended that groups of experts in a number of areas that UNL might consider for future investments be invited to provide additional input and advice as we refine our plans. As many of you know this process was already underway in the areas of Bovine Genomics/Beef Systems, Nutrigenomics, Food Safety (*E.coli*),and Water for Food. These areas could provide the next set of major efforts that would build on our already strong UNL wide efforts in Redox-Biology, Virology, and Plant Science Innovation.

The review team also recommended that UNL give serious consideration to the development of administrative structures to promote collaboration across the university in the molecular life sciences. To that end they suggested we investigate collaborative models that are currently being used at the University of Missouri, Columbia, the University of Arizona, Tucson, and the Ohio State University, Columbus. IANR has organized visits to these locations to identify best practices that might be used at UNL. T eams of UNL administrators, led by IANR administrators, visited Columbia, Tucson and soon Columbus. Each team will be filing a report with Vice Chancellor Owens

With these models to provide guidance and the strong commitment that has already been exhibited by UNL faculty to get expert advice, UNL should be in a position to develop world class collaborations to advance the molecular life sciences.

The report can be found at http://www.unl.edu/ucomm/chancllr/otcdocs.shtml

Gary Cunningham
Dean and Director

Other Articles

Please click on the topics to view the information:
Layman Awards
Anna Elliott Proposals
New or Revised Projects (January through April 2009)
Proposals Submitted for Federal Grants (January through April 2009)
Grants and Contracts Received (January through April 2009)

Online @ http://ard.unl.edu/AprMayJune09News/deansnote.shtml

LAYMAN AWARDS

IANR faculty submitted 10 proposals for funding by the Layman Trust. A subcommittee of the ARD Advisory Council carefully evaluated each proposal and ranked the submissions in relation to quality of science and the potential impact of the proposed research. There were 10 proposals forwarded to the Vice Chancellor for Research.

The primary aim of the Layman Awards is to provide seed money to enhance the possibility of obtaining external support for the research project . Only untenured faculty or tenured faculty who have not yet received an external grant are eligible for the program.

Seven of the ten proposals submitted to the Vice Chancellor for Research were funded:

Brian Waters, Agronomy & Horticulture Department
"Identification of Shoot-to-root Iron Status Signaling Compounds to Improve Plant Nutritional Quality"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2010

Giles Basset, Agronomy & Horticulture Department
"An Extraordinary Bi-functional Enzyme Connects the Reduction of Phylloquinone to the Refolding of Proteins in Plastids"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2010

Martha Mamo, Agronomy & Horticulture Department
"Integrating Hydrological and Terrestrial Processes: Effects of Conservation Structures on Nitrous Oxide Emission in Eastern Nebraska"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2009

Cheryl Bailey, Biochemistry Department
"Role of SUMOylation of Flagellar and Cilia Regeneration"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2010

Dmitri Fomenko, Biochemistry Department
"Redox Processes in the Endoplasmic Reticulum"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2010

Ming Guo, Plant Pathology Department
"Using a Yeast System to Determine the Functions of HopA1, a Type III Effector of Plant Bacterial Pathogen Pseudomonas Syringae"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2010

Song Feng, School of Natural Resources
"Understanding the Role of Atlantic Sea Surface Temperatures on Persistent Drought in the U.S. Great Plains"

Total Amount Received	$10,000
Funding Period:	July 1, 2009 - June 30, 2010

ANNA ELLIOTT PROPOSALS

Ten proposals were received for the Anna H. Elliott fund. This foundation fund was established in the University of Nebraska Foundation with the stipulation that earnings be used for research in some area of agriculture, particularly in the field of plant sciences, and with preference to plant science in Western Nebraska. Three proposals were funded as follows:

Tala Awada, School of Natural Resources
(Walter Schacht, Ed Harvey, Jerry Volesky, Xinhua Zhou)
"Role of Forbs and Shrubs in Semi-arid Grasslands in Nebraska Sandhills"

Total Amount Received	$30,000
Funding Period:	May 1, 2009 - April 30, 2010

Ayse Irmak, School of Natural Resources
(Gary Hergert, Gary Stone, Peggy Penrose, Sunil Narumalani, Ian Ratcliffe, Suat Irmak, Kyle Hoagland)
"Remove Sensing-based Energy Balance for Mapping Riparian Evapotranspiration Along North Platte River Basin, Nebraska"

Total Amount Received	$29,860
Funding Period:	May 1, 2009 - April 30, 2010

Drew Lyon, Panhandle Research & Extension Center
(Timothy Arkebauer, David Nielsen, Paul Burgener)
"Testing the Concept of Flexible Fallow"

Total Amount Received	$27,810
Funding Period:	May 1, 2009 - April 30, 2010

New or Revised Projects (January through April 2009)
Source: NUGrant

Last Name	First Name	Department	Project Type	Project Title	Proj. Begins	Proj. Ends	Proj. Number
Weller	Curtis	BSE	Hatch	Process influences on fate and bioactivity of lipid componds from whole-grain sorghum	01-Feb-09	31-Jan-14	21-150
Matkin	Gina	ALEC	Hatch	Leaders' levels of intercultural sensitivity as a predictor of positive outcomes in building and enhancing diverse communities and organizaitons in NE	01-Apr-09	31-Mar-14	24-037
Vidaver	Anne	PLPT	Hatch	Diversity, pathogenic determinants and management clavibacter michiganesis subsp. Nebraskensis and Curtobacterium flaccumfaciens pv. Flaccumfaciens	01-Oct-08	30-Sep-13	35-110
Niemeyer	Shirley	TCD	Hatch	Barriers to adoption of energy efficient practices and technology by small businesses	01-Dec-08	30-Nov-13	37-036
Comfort	Steve	SNRS	Hatch	Remediating organic contaminants in soil and water through natural and accelerated attenuation	01-Feb-09	31-Jan-14	38-071
Kuzila	Mark	SNR	McIntire-Stennis	The effect of a transition from prairie to forest ecosystems on soils in NE	01-Feb-09	31-Jan-14	38-072
Stalker	Aaron	WCRE	Hatch	Management of beef cows in forage based production systems	01-Dec-08	30-Nov-13	42-106

Proposals Submitted for Federal Grants (January through April 2009)
Source: NUGrant

The following is a listing of proposals that were submitted from January through April 2009 by faculty for federal grant programs. While not all grants will be funded, we are appreciative of the faculty members' outstanding efforts in submitting proposals to the various agencies.

Title	First Name	Last Name	PI	Sponsor	Amt. Req.
Epigenetic Synergies	Janos	Zempleni	Lead	Dept of Agriculture-AFRI	$495,561.00
Phylogenomics of L. reuteri	Jens	Walter	Lead	Dept of Agriculture-AFRI	$455,751.00
	Andrew	Benson		Dept of Agriculture-AFRI	
	Robert	Hutkins		Dept of Agriculture-AFRI	
Immune Response to PRRSV Glycoprote	Asit	Pattnaik	Lead	Dept of Agriculture-AFRI	$375,000.00
	Fernando	Osorio		Dept of Agriculture-AFRI	
MAP-Macrophage Genomic Analysis	Raul	Barletta	Lead	Dept of Agriculture-AFRI	$983,762.00
	Ofelia	Barletta-Chacon		Dept of Agriculture-AFRI	
Effect of PRRSV on Innate Immunity	Fernando	Osorio	Lead	Dept of Agriculture-AFRI	$374,195.00
	Asit	Pattnaik		Dept of Agriculture-AFRI	
USDA Mapping Important Crop Species	Dong	Wang	Lead	Dept of Agriculture-AFRI	$443,664.00
	Peter	Baenziger		Dept of	

				Agriculture-AFRI	
	Ismail	Dweikat		Dept of Agriculture-AFRI	
	Kent	Eskridge		Dept of Agriculture-AFRI	
Metabolomics and Bioactives	Vicki	Schlegel	Lead	Dept of Agriculture-AFRI	$499,602.00
	Susan	Cuppett		Dept of Agriculture-AFRI	
	Ji-Young	Lee		Dept of Agriculture-AFRI	
Gut Health: Food Sci/Nutr Students	Robert	Hutkins	Lead	Dept of Agriculture-AFRI	$995,076.00
	Andrew	Benson		Dept of Agriculture-AFRI	
	Daniel	Peterson		Dept of Agriculture-AFRI	
	Vicki	Schlegel		Dept of Agriculture-AFRI	
	Jens	Walter		Dept of Agriculture-AFRI	
	Stephen	Kachman		Dept of Agriculture-AFRI	
	Timothy	Carr		Dept of Agriculture-AFRI	
	Ji-Young	Lee		Dept of Agriculture-AFRI	

	Janos	Zempleni		Dept of Agriculture-AFRI	$995,076.00
Two-Phase Coaxial Jet Electrospray	Milford	Hanna	Lead	Dept of Agriculture-AFRI	$251,838.00
	Yixiang	Xu		Dept of Agriculture-AFRI	
Organogenic Transformation	Sally	Mackenzie	Lead	Dept of Agriculture-AFRI	$450,000.00
	Thomas	Clemente		Dept of Agriculture-AFRI	
	Thomas	Clemente		Dept of Agriculture-AFRI	
	James	Alfano		Dept of Agriculture-AFRI	
	James	Alfano		Dept of Agriculture-AFRI	
	Thomas	Clemente		Dept of Agriculture-AFRI	
Transformation of CAFO Wastes	Daniel	Snow		Dept of Agriculture-AFRI	$399,964.00
Soil Carbon and the Ne Sand Hills	Rhae	Drijber	Lead	Dept of Agriculture-AFRI	$349,882.00
	David	Wedin		Dept of Agriculture-AFRI	
Extracting Bioactives: Winery Waste	Jeyamkondan	Subbiah	Lead	Dept of Agriculture-AFRI	$673,250.00
	Richard	Perrin		Dept of Agriculture-AFRI	

	David	Rickert		Dept of Agriculture-AFRI	
	Vicki	Schlegel		Dept of Agriculture-AFRI	
	Jeyamkondan	Subbiah		Dept of Agriculture-AFRI	
	Harshavardhan	Thippareddi		Dept of Agriculture-AFRI	
	Milford	Hanna		Dept of Agriculture-AFRI	
Misting & Microbial Load on Produce	Julie	Albrecht	Lead	Dept of Agriculture-AFRI	$599,992.00
Popul Genetics of Cyclodiene Resist	Blair	Siegfried	Lead	Dept of Agriculture-AFRI	$224,419.00
	Hong	Chen		Dept of Agriculture-AFRI	
	Haichuan	Wang		Dept of Agriculture-AFRI	
M. testaceum & Epiphytic Population	Anne	Vidaver	Lead	Dept of Agriculture-AFRI	$399,778.00
	Andrew	Benson		Dept of Agriculture-AFRI	
	Raul	Barletta		Dept of Agriculture-AFRI	
Fitness Factors in Switchgrass	Madhavan	Soundararajan	Lead	Dept of Agriculture-ARS	$287,484.00
Maternal Health Women in Tajikistan	Julie	Albrecht	Lead	Dept of Agriculture-CSREES	$149,973.00

	Shakhlo	Yarbaeva		Dept of Agriculture-CSREES	
5 State Prairie-Chicken Project	Walter	Schacht	Lead	Dept of Agriculture-CSREES	$112,240.00
	Bruce	Johnson		Dept of Agriculture-CSREES	
	Dennis	Bauer		Dept of Agriculture-CSREES	
	Larkin	Powell		Dept of Agriculture-CSREES	
Green Products from Corn DDG	Yiqi	Yang	Lead	Dept of Agriculture-CSREES	$0.00
	Narendra	Reddy		Dept of Agriculture-CSREES	
Biomaterials from Cotton Stalks	Yiqi	Yang	Lead	Dept of Agriculture-CSREES	$0.00
	Narendra	Reddy		Dept of Agriculture-CSREES	
Eco Strategies for Organic Farming	John	Lindquist	Lead	Dept of Agriculture-CSREES	$467,000.00
	Rhae	Drijber		Dept of Agriculture-CSREES	
	Charles	Francis		Dept of Agriculture-CSREES	
	Samuel	Wortman		Dept of Agriculture-CSREES	
Organic Project Continuation	Charles	Shapiro	Lead	Dept of Agriculture-CSREES	$1,494,431.00

	Mark	Bernards		Dept of Agriculture-CSREES	
	Richard	Ferguson		Dept of Agriculture-CSREES	
	Charles	Francis		Dept of Agriculture-CSREES	
	Robert	Wright		Dept of Agriculture-CSREES	
	Vicki	Schlegel		Dept of Agriculture-CSREES	
	Stevan	Knezevic		Dept of Agriculture-CSREES	
	Gary	Hergert		Dept of Agriculture-CSREES	
	Drew	Lyon		Dept of Agriculture-CSREES	
	James	Brandle		Dept of Agriculture-CSREES	
	John	Quinn		Dept of Agriculture-CSREES	
HPP of Organic Peanut Butter	Jayne	Stratton	Lead	Dept of Agriculture-CSREES	$73,479.00
	David	Rickert		Dept of Agriculture-CSREES	
	Durward	Smith		Dept of Agriculture-CSREES	
Analysis of BHV-1 Latency React	Clinton	Jones	Lead	Dept of Agriculture-CSREES	$374,985.00

Nuts Safety	Jeyamkondan	Subbiah	Lead	Dept of Agriculture-CSREES	$599,923.00
	Jeyamkondan	Subbiah		Dept of Agriculture-CSREES	
	Harshavardhan	Thippareddi		Dept of Agriculture-CSREES	
Coordinated Wine Grape Evaluations	Paul	Read	Lead	Dept of Agriculture-CSREES	$3,744.00
Enhancing Irrigation Management Too	Gary	Hergert	Lead	Dept of Agriculture-RMA-FCIC	$249,999.00
	Raymond	Supalla		Dept of Agriculture-RMA-FCIC	
	Derrel	Martin		Dept of Agriculture-RMA-FCIC	
	Paul	Burgener		Dept of Agriculture-RMA-FCIC	
	Drew	Lyon		Dept of Agriculture-RMA-FCIC	
	Alexander	Pavlista		Dept of Agriculture-RMA-FCIC	
	Dipak	Santra		Dept of Agriculture-RMA-FCIC	
GAANN Fellowship for Statistics	Kent	Eskridge	Lead	Dept of Education	$783,963.00
	Christopher	Bilder		Dept of Education	
	Erin	Blankenship		Dept of Education	
	Anne	Parkhurst		Dept of Education	

	Walter	Stroup		Dept of Education	
Nitrogen Use in Sweet Sorghum	Ismail	Dweikat	Lead	Dept of Energy	$543,969.00
	Thomas	Clemente		Dept of Energy	
	Thomas	Clemente		Dept of Energy	
	Donald	Weeks		Dept of Energy	
	Thomas	Clemente		Dept of Energy	
Carbon Sequestration in Dryland	Shashi	Verma	Lead	Dept of Energy	$315,000.00
	Timothy	Arkebauer		Dept of Energy	
	Kenneth	Cassman		Dept of Energy	
	Daniel	Walters		Dept of Energy	
	Kenneth	Hubbard		Dept of Energy	
	Andrew	Suyker		Dept of Energy	
USGS RiparianEvapotranspiration Map	Ayse	Irmak	Lead	Dept of Interior-GS	$212,600.00
	Kyle	Hoagland		Dept of Interior-GS	
	Ian	Ratcliffe		Dept of Interior-GS	
Teen Dating Violence	Yan	Xia	Lead	Dept of Justice-Natl Inst of Justice	$498,546.00
	Maria	De Guzman		Dept of Justice-Natl Inst of Justice	
	John	DeFrain		Dept of Justice-Natl Inst of Justice	

Postmortem Interval and Gravesoil	David	Carter	Lead	Dept of Justice-Natl Inst of Justice	$28,573.00
	Rhae	Drijber		Dept of Justice-Natl Inst of Justice	
Soil Biology as Trace Evidence	David	Carter	Lead	Dept of Justice-Natl Inst of Justice	$142,475.00
	Rhae	Drijber		Dept of Justice-Natl Inst of Justice	
	Cheryl	Bailey		Dept of Justice-Natl Inst of Justice	
ARRA: HA Matrix & Prostate Cancer	Melanie	Simpson	Lead	DHHS-Nat Cancer Institute	$357,219.00
	Joseph	Barycki		DHHS-Nat Cancer Institute	
ARRA: Redox Biology Ctr Summer REU	Vadim	Gladyshev	Lead	DHHS-Nat Ctr Rsch Resources	$475,272.00
	Donald	Becker		DHHS-Nat Ctr Rsch Resources	
	Julie	Stone		DHHS-Nat Ctr Rsch Resources	
	Donald	Becker		DHHS-Nat Ctr Rsch Resources	
	Vadim	Gladyshev		DHHS-Nat Ctr Rsch Resources	
	Julie	Stone		DHHS-Nat Ctr Rsch Resources	
ARRA: DNA/Gene Exp Chlorella Virus	James	Van Etten	Lead	DHHS-Nat Inst Gen Medical Sci	$143,686.00

ARRA: Anti-Symbiont Monoclonal Mice	Daniel	Peterson	Lead	DHHS-NIAID	$100,000.00
ARRA: HSV-1 LAT Encode Protein	Clinton	Jones	Lead	DHHS-NIAID	$64,189.00
ARRA: Biotin Sensing & Chromatin	Janos	Zempleni	Lead	DHHS-NIDDK	$321,840.00
ARRA: Genetic Ctrl Gut Microbiome	Andrew	Benson	Lead	DHHS-NIDDK	$997,733.00
	Jens	Walter		DHHS-NIDDK	
RNAs Encoding by HSV-1 Latency	Clinton	Jones	Lead	DHHS-NIH-Nat Inst Health	$398,475.00
HDL by Fatty Acids	Ji-Young	Lee	Lead	DHHS-NIH-Nat Inst Health	$1,419,380.00
IGF-1 Developmental Prog.	Jennifer	Wood	Lead	DHHS-NIH-Nat Inst Health	$1,557,675.00
Evaluation Athero-Protective Role	Ji-Young	Lee	Lead	DHHS-NIH-Nat Inst Health	$387,365.00
Acquisition of Ultimate 3000	Renu	Nandakumar	Lead	DHHS-NIH-Nat Inst Health	$106,878.00
	Renu	Nandakumar		DHHS-NIH-Nat Inst Health	
LTQXL Mass Spectrometer	Nandakumar	Madayiputhiya	Lead	DHHS-NIH-Nat Inst Health	$500,000.00
	Nandakumar	Madayiputhiya		DHHS-NIH-Nat Inst Health	
Acquisition of the Typhoon 9410	Vadim	Gladyshev	Lead	DHHS-NIH-Nat Inst Health	$142,429.00
	Vadim	Gladyshev		DHHS-NIH-Nat Inst Health	
High-Throughput Robotic	Javier	Seravalli	Lead	DHHS-NIH-	$462,000.00

System				Nat Inst Health	
	Javier	Seravalli		DHHS-NIH-Nat Inst Health	
Methionine Sulfoxide Reductases	Vadim	Gladyshev	Lead	DHHS-NIH-Nat Inst Health	$53,770.00
ARRA: Repetitive DNA Nucleosomes	Istvan	Ladunga		DHHS-NIH-Nat Inst Health	$1,000,000.00
ARRA: Eval Toxicity of Nanotextiles	Yiqi	Yang	Lead	DHHS-NIH-Nat Inst Health	$382,401.00
	Narendra	Reddy		DHHS-NIH-Nat Inst Health	
ARRA: Insulin Resist & Fatty Acids	Ji-Young	Lee	Lead	DHHS-NIH-Nat Inst Health	$839,879.00
	Janos	Zempleni		DHHS-NIH-Nat Inst Health	
ARRA: Fatty Acid Biomarkers	Concetta	DiRusso	Lead	DHHS-NIH-Nat Inst Health	$997,273.00
	Concetta	DiRusso		DHHS-NIH-Nat Inst Health	
	Timothy	Carr		DHHS-NIH-Nat Inst Health	
	Ji-Young	Lee		DHHS-NIH-Nat Inst Health	
ARRA: POCTB1 Sputum Cassette	Shadi	Othman		DHHS-NIH-Nat Inst Health	$833,379.00
ARRA: Convergent Biomarker in Mice	You	Zhou	Lead	DHHS-NIH-Nat Inst Health	$495,087.00

	Jean-Jack	Riethoven		DHHS-NIH-Nat Inst Health	
	Merlyn	Nielsen		DHHS-NIH-Nat Inst Health	
	You	Zhou		DHHS-NIH-Nat Inst Health	
ARRA: Tissue Engr/Epigenetics	Angela	Pannier	Lead	DHHS-NIH-Nat Inst Health	$978,784.00
	Janos	Zempleni		DHHS-NIH-Nat Inst Health	
	Yiqi	Yang		DHHS-NIH-Nat Inst Health	
ARRA: MRI for Engineered Tissues	Shadi	Othman	Lead	DHHS-NIH-Nat Inst Health	$998,682.00
	Gregory	Bashford		DHHS-NIH-Nat Inst Health	
ARRA: AMPK in Adipose Delipidation	Michael	Fromm	Lead	DHHS-NIH-Nat Inst Health	$551,361.00
	Michael	Fromm		DHHS-NIH-Nat Inst Health	
	Jess	Miner		DHHS-NIH-Nat Inst Health	
ARRA: Hormone Inactivation & CaP	Melanie	Simpson	Lead	DHHS-NIH-Nat Inst Health	$995,463.00
	Joseph	Barycki		DHHS-NIH-Nat Inst Health	
ARRA: Depression Risk Transmission	Catherine	Huddleston-Casas	Lead	DHHS-NIH-Nat Inst Health	$887,522.00

	Susan	Churchill		DHHS-NIH-Nat Inst Health	
ARRA: ID of Senescence Factors	Vadim	Gladyshev	Lead	DHHS-NIH-Nat Inst Health	$813,302.00
	Vadim	Gladyshev		DHHS-NIH-Nat Inst Health	
Assessing Carbon Sequestration	Martha	Mamo	Lead	Environmental Protection Agency	$149,965.00
	Walter	Schacht		Environmental Protection Agency	
	Jerry	Volesky		Environmental Protection Agency	
Fungal Morphogenesis	Steven	Harris	Lead	NSF	$392,796.00
	Steven	Harris		NSF	
Phylloquinone Biosynthesis in Plant	Gilles	Basset	Lead	NSF	$440,356.00
	Gilles	Basset		NSF	
	Gilles	Basset		NSF	
Loess Landforms & Eolian Processes	Paul	Hanson	Lead	NSF	$45,730.00
AtSPL14 in PCD	Julie	Stone	Lead	NSF	$589,636.00
	Julie	Stone		NSF	
MRI: Acquis of Mass Spectrometer	Sally	Mackenzie	Lead	NSF	$765,588.00
Transitive Silencing	Amitava	Mitra	Lead	NSF	$1,649,082.00
Avramova: TRMS: Towards an Integrat	Michael	Fromm		NSF	$1,787,609.00
	Dong	Wang		NSF	
Non-Linear Elastography	Shadi	Othman	Lead	NSF	$301,436.00
	Gregory	Bashford		NSF	
	Angela	Pannier		NSF	
Wheat Protein Fibers for Tissue Eng	Yiqi	Yang	Lead	NSF	$198,599.00

	Narendra	Reddy		NSF	
Natural Nanowebs Produced by Ants	Yiqi	Yang	Lead	NSF	$198,599.00
	Narendra	Reddy		NSF	
NSF Equip Acquistion Grdwtr Level	Mark	Burbach	Lead	NSF	$179,966.00
	Cody	Knutson		NSF	
Nanomembranes for Bioseparation	Yiqi	Yang	Lead	NSF	$199,324.00
	Narendra	Reddy		NSF	
Fate and Transport of CAFO Hormones	Daniel	Snow		NSF	$386,317.00
IGERT: Molecular Plant Breeding	Sally	Mackenzie	Lead	NSF	$0.00
	Thomas	Clemente		NSF	
	Ismail	Dweikat		NSF	
	Dong	Wang		NSF	

Grants and Contracts Received (January through April 2009)
Source: NUGrant

Title	First Name	Last Name	Sponsor	Amt. Awarded
Cellular Metal Detoxification	Jaekwon	Lee	DHHS-NIEHS	$287,216.00
Stability/Prebiotics/Processed Food	Robert	Hutkins	Dept of Agriculture-NRICGP	$444,920.00
	Vicki	Schlegel	Dept of Agriculture-NRICGP	
	Randy	Wehling	Dept of Agriculture-NRICGP	
Market Source-Verified Beef	Chris	Calkins	Ne Dept Agriculture	$50,000.00
Biotin Sensing and Chromatin	Janos	Zempleni	DHHS-NIDDK	$252,126.00
Coordinated Wine Grape Variety	Paul	Read	Cornell University	$5,192.00
Sphingolipid Desaturation in Plants	Edgar	Cahoon	NSF	$180,000.00
	Edgar	Cahoon	NSF	
REU Site: Training in Redox Biology	Donald	Becker	NSF	$82,750.00
	Julie	Stone	NSF	
Validation of Tenderness Prediction	Chris	Calkins	Natl Cattlemen's Beef Assn	$39,910.00
	Jeyamkondan	Subbiah	Natl Cattlemen's Beef Assn	
	Jeyamkondan	Subbiah	Natl Cattlemen's Beef Assn	
Winter Wheat Combine Repair	Gary	Hergert	Ne Wheat Board	$15,000.00
Practice Standard for Adaptive Mgmt	Kyle	Hoagland	Dept of Interior-GS	$84,876.00
Fatty Acid Uptake Inhibitors	Concetta	DiRusso	DHHS-NIDDK	$273,061.00
	Concetta	DiRusso	DHHS-NIDDK	
Fatty Acid Uptake Inhibitors	Paul	Black	DHHS-NIDDK	$273,061.00
5HT Presynaptic Inhibition	Gary	Pickard	DHHS-NINDS	$317,718.00

	Patricia	Sollars	DHHS-NINDS	
Adherence Inhibition of Pathogens	Robert	Hutkins	Mead Johnson Nutrition	$48,000.00
R-Neurons Afferent to Circadian Sys	Gary	Pickard	DHHS-Nat Eye Institute	$95,550.00
	Patricia	Sollars	DHHS-Nat Eye Institute	
Private Landowners in Namibia	Larkin	Powell	World Wildlife Fund	$4,500.00
Angler Behavior on NE Reservoirs	Kevin	Pope	Ne Game & Parks Commission	$3,147,776.00
Biofibers and Composites from DDGS	Yiqi	Yang	Ne Corn Board	$20,000.00
NGPC Hemorrhagic Disease Data	Scott	Hygnstrom	Ne Game & Parks Commission	$5,500.00
Ractopamine-HCL in Feedlot Steers	Galen	Erickson	Elanco Animal Health	$25,000.00
BioCassava Plus	Edgar	Cahoon	Donald Danforth Plant Science Center	$192,021.00
	Edgar	Cahoon	Donald Danforth Plant Science Center	
Graduate Student - Nebraska Injury	Kent	Eskridge	Ne Dept Health & Human Serv	$13,015.00
Pesticide Research	Thomas	Hunt	AMVAC Chemical Corporation	$800.00
Soil Fertility Research	Charles	Shapiro	Tessenderlo Kerley Inc	$3,000.00
Plant Studies	Stephen	Wegulo	Arysta LifeScience	$1,500.00
Weed Control Research	Robert	Wilson Jr	Sensus America	$5,000.00
Wild Turkey Damage Lit Review	Scott	Hygnstrom	National Wild Turkey Federation	$1,000.00
USGS Ne Water Resource 104B 2009	Kyle	Hoagland	Dept of Interior-GS	$92,335.00
LCA of Greenhouse Gas	Kenneth	Cassman	Ne Corn Board	$25,000.00
	Adam	Liska	Ne Corn Board	
Emission Profiles of Soy-	Milford	Hanna	Ne Soybean Board	$8,500.00

Biodiesel				
Fishmeal Oil Kona Project	Thomas	Clemente	United Soybean Bd/Smith/Bucklin	$167,269.00
	Thomas	Clemente	United Soybean Bd/Smith/Bucklin	
	Thomas	Clemente	United Soybean Bd/Smith/Bucklin	
Avian Influenza (AI) - Hi Path Surv	David	McVey	Ne Dept Agriculture	$70,000.00
Planting & Harvesting Systems for Western Nebraska	John	Smith	Syngenta	$1,400.00
Feedlot & Carcass Performance of Steers Receiving Single & Reimplants	Judson	Vasconcelos	JVCO LLC	$13,750.00
Plant Studies	Stephen	Wegulo	BASF Corporation	$5,000.00
Weed Control Research	Robert	Wilson Jr	Winfield Solutions LLC	$4,500.00
USGS Missouri River Adaptive Mgmt	Richard	Tyre	Dept of Interior-GS	$247,104.00
	Craig	Allen	Dept of Interior-GS	
	Erkan	Istanbulluoglu	Dept of Interior-GS	
Acid Marination of the Beef Round	Chris	Calkins	Natl Cattlemen's Beef Assn	$12,500.00
GI & N Platte Recharge Quality/Rate	James	Goeke	Central Platte NRD	$36,100.00
Impact of 30,000 Gallon Ethanol	Roy	Spalding	Ne Ethanol Board	$51,000.00
	Mary	Spalding	Ne Ethanol Board	
Remote Sensing on the Fremont Lakes	Donald	Rundquist	Ne Dept Environmental Quality	$3,100.00
Characterizing the Beef Heel Muscle	Chris	Calkins	Natl Cattlemen's Beef Assn	$6,200.00
Astaxanthin Bioavailability	Ji-Young	Lee	Algaen Corporation	$21,635.00
Control Fusarium Head Blight	Gary	Yuen	Dept of Agriculture-ARS	$34,309.00
Pesticide Exposure in Honey	Reed	Johnson	National Honey	$26,333.00

Bees			Board	
	Marion	Ellis	National Honey Board	
	Blair	Siegfried	National Honey Board	
Model & Field Experimentation CESU	Derrel	Martin	Dept of Interior-BR	$38,508.00
GIS Support to NE Dept of Ag	Donald	Rundquist	Ne Dept Agriculture	$14,740.00
NE Geospatial Data & Web Network	James	Merchant	Ne Office of the Chief Information Officer	$34,441.00
Profit Reduced Herbicide Weed Management Systems	Mark	Bernards	BASF Corporation	$1,500.00
Weed Control Research	Mark	Bernards	Winfield Solutions LLC	$5,000.00
Turfgrass Research	Roch	Gaussoin	Scotts Company	$500.00
Turfgrass Research	Roch	Gaussoin	The Andersons	$1,500.00
Plant Diseases in Western Nebraska	Robert	Harveson	Summerdale Inc	$2,950.00
Pesticide Research	Thomas	Hunt	Chemtura Corporation	$4,000.00
Plant Breeding Research	Dale	Lindgren	Bluebird Nursery	$244.00
Dryland Cropping Systems	Drew	Lyon	E. I. Dupont	$2,000.00
Dryland Cropping Systems	Drew	Lyon	E. I. Dupont	$2,000.00
Entomology Research	Blair	Siegfried	Pioneer Hi-Bred	$13,000.00
Beef Cattle Research	Judson	Vasconcelos	JVCO LLC	$13,750.00
Beef Cattle Research	Judson	Vasconcelos	Ivy Animal Health	$16,875.00
Beef Cattle Research	Judson	Vasconcelos	JVCO LLC	$13,750.00
Ecological Intensification of Maize Systems	Daniel	Walters	International Plant Nutrition Institute	$6,000.00
Ecological Intensification of Maize Systems	Daniel	Walters	International Plant Nutrition Institute	$6,000.00
Weed Control Research	Robert	Wilson Jr	E. I. Dupont	$10,000.00
Horticulture Project 2138	Leonard	Wit Jr	Ne Turfgrass Foundation	$5,000.00
Horticulture Project 2138	Leonard	Wit Jr	Ne Turfgrass Foundation	$5,000.00

River Otter Home Range & Habitats	Craig	Allen	Ne Game & Parks Commission	$22,000.00
Metabolic Profiling of Soybean	Edgar	Cahoon	Ne Soybean Board	$200,000.00
	Edgar	Cahoon	Ne Soybean Board	
Chronic Wasting Disease Testing	David	Steffen	Ne Game & Parks Commission	$15,000.00
	David	McVey	Ne Game & Parks Commission	
Lower Salt Creek Grdwtr Rsvr Model	Jesse	Korus	Lower Platte South NRD	$14,971.00
Drought Information System	Jae	Ryu	Kongju National University	$1,431.00
	Michael	Hayes	Kongju National University	
Ethanol Blend Study	Milford	Hanna	Ne Corn Board	$27,400.00
Biosafety Training GC9	Richard	Goodman	Donald Danforth Plant Science Center	$112,099.00
Optimum® GAT® Corn Evaluation	Mark	Bernards	Pioneer Hi-Bred	$9,000.00
Testing for Endemic Animal Diseases	David	McVey	Dept of Agriculture-APHIS	$100,000.00
Genetic Transformation of Sorghum	Thomas	Clemente	Caisson Laboratories Inc	$96,642.00
	Thomas	Clemente	Caisson Laboratories Inc	
	Thomas	Clemente	Caisson Laboratories Inc	
North Platte Decree Committee	Kenneth	Hubbard	Ne Community Foundation Inc	$3,166.00
PQRI Shelf Life of Pharmaceuticals	Walter	Stroup	Product Quality Research Institute	$60,539.00
Improving Grape Res Programs for Ne	Paul	Read	Ne Dept Agriculture-Grape & Winery Bd	$12,000.00
Dicamba Soybean Field Study	Mark	Bernards	Monsanto Co	$6,000.00
Est Permanent Veget after Hwy Const	Walter	Schacht	Ne Dept Roads	$18,910.00
Turfgrass Research	Roch	Gaussoin	Lebanon Seaboard	$2,100.00

			Corporation	
Plant Diseases in Western Nebraska	Robert	Harveson	Western Sugar Company	$28,500.00
Canola and Camelina Research	Gary	Hergert	Progressive Producers Nonstock Coop	$10,135.00
Sugarbeet N Research	Gary	Hergert	Western Sugar Company	$7,000.00
Planting & Harvesting Systems for Western Nebraska	John	Smith	Western Sugar Company	$6,500.00
Planting & Harvesting Systems for Western Nebraska	John	Smith	Western Sugar Company	$5,500.00
	Drew	Lyon	Western Sugar Company	
Genetic Defects	David	Steffen	American Simmental Association	$2,500.00
Ecological Intensification of Maize Systems	Daniel	Walters	International Plant Nutrition Institute	$6,000.00
Weed Control Research	Robert	Wilson Jr	Western Sugar Company	$10,500.00
Horticulture Project 2138	Leonard	Wit Jr	Ne Turfgrass Foundation	$5,000.00
Irrigation Management	C	Yonts	Western Sugar Company	$4,500.00
Struct Insight in Redox Homeostasis	Joseph	Barycki	DHHS-Nat Inst Gen Medical Sci	$224,824.00
Sorghum & Millet Production-Mali	John	Yohe	Agency for Intl Development	$1,000,000.00
Funct Switch in PutA Flavoprotein	Donald	Becker	DHHS-Nat Inst Gen Medical Sci	$288,663.00
Biol Ctrl/Plant-Parasitic Nematodes	Gary	Yuen	Univ of California-Davis	$61,470.00
	Thomas	Powers	Univ of California-Davis	
Nuclear Mechanisms & Genome	Sally	Mackenzie	NSF	$150,000.00
Impact of CO2 Changes in US	John	Lenters	Michigan Technological University	$45,667.00

Seeded Buffalograss Development	Robert	Shearman	Native Turf Development Group	$20,000.00
Carbon Dioxide Flux Measure System	David	Billesbach	Dept of Energy-Berkeley Nat Lab	$33,124.00
Fatty Acid Uptake Inhibitors	Concetta	DiRusso	DHHS-NIDDK	$52,922.00
	Concetta	DiRusso	DHHS-NIDDK	
	Paul	Black	DHHS-NIDDK	
Improving Managment of SCN	Loren	Giesler	North Central Soybean Research Prog	$292,000.00
Events MIR604/5307: IRM Study	Lance	Meinke	Syngenta	$35,280.00
Buffalograss Breeding for Golf	Robert	Shearman	U. S. Golf Assn	$7,500.00
Hyaluronan Matrix & Prostate Cancer	Melanie	Simpson	DHHS-Nat Cancer Institute	$205,583.00
Satellite-Based Carbon Exchange	Anatoly	Gitelson	NASA	$180,101.00
	Andrew	Suyker	NASA	
	Shashi	Verma	NASA	
Advanc Tern & Plover Conservation	Mary	Brown	Ne Environmental Trust	$70,000.00
Biotin Sensing and Chromatin	Janos	Zempleni	DHHS-NIDDK	$26,082.00
Turfgrass Research	Roch	Gaussoin	Ne Golf Course Supt Assn	$2,500.00
Plant Research	Gary	Hein	Western Sugar Company	$7,500.00
Determining the Effect of Probiotic Oligosaccharides on the Human Intestinal Microbiota	Robert	Hutkins	GTC Nutrition	$47,850.00
Dryland Cropping Systems	Drew	Lyon	Dow AgroSciences	$2,400.00
Genetic Defects	David	Steffen	Western University of Health Sciences	$1,635.00
Beef Cattle Research	Judson	Vasconcelos	JVCO LLC	$13,750.00
Methionine Sulfoxide Reduction	Vadim	Gladyshev	DHHS-Nat Inst Aging	$302,375.00

Platte Riv Catfish Population Dynam	Mark	Pegg	Ne Game & Parks Commission	$33,000.00