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Office of the President
September 20, 2005

1. Record \$274 Million in Grants and Contracts Received in Fiscal Year 2005

University of Kentucky faculty and researchers brought in a record \$273,966,137 million in grants and contracts during fiscal year 2005. The record amount, a 15 percent increase over last year's \$238 million, clearly demonstrates UK's momentum in reaching national prominence as a research institution and is indicative of the success the university is having as a catalyst for positive change in Kentucky. Federal awards – from agencies such as the National Institutes of Health, National Science Foundation, and departments of Defense, Education, and Agriculture, among others – totaled \$152.2 million, a 6 percent increase over the previous year's total of \$143.8 million.

2. College of Medicine Departments Rank among NIH's Top 20

Several UK College of Medicine departments rank among the top 20 in National Institutes of Health funding to public medical schools for fiscal year 2004. Overall, the UK College of Medicine received \$62,202,492 and ranks 31st in fiscal year 2004 NIH funding to public medical schools. This represents a gain over last year's 35th place ranking, with the college earning almost \$3 million additional NIH research dollars. UK College of Medicine basic science departments ranked in the top 20 among public medical schools include: Behavioral Science at No. 1; Molecular and Biomedical Pharmacology at No. 10; Anatomy and Neurobiology at No. 14; Molecular and Cellular Biochemistry at No. 14; and Microbiology, Immunology and Molecular Genetics at No. 17. The Behavioral Science Department is also ranked first among departments of psychology in NIH funding among all medical schools nationwide. UK clinical departments in the top 20 include Physical Medicine and Rehabilitation at No. 8, Neurology at No. 13, OB/GYN at No. 15, and Pathology at No. 20.

3. Four New Residence Halls Open to Students

Students have moved into UK's four new residence halls, the first ones to open on campus since Greg Page Apartments in 1979. At a total cost of \$46 million, the halls were financed through university housing and dining bonds. The new dorms meet the demand for on-campus housing due to the university's record enrollment growth over the past few years. Three of the residence halls are located on south campus near the Kirwan/Blanding Complex and one is located at the corner of Martin Luther King, Jr. Boulevard and Euclid Avenue on north campus.

4. Nearly \$5 Million in Grants Fund Homeland Security Research Campuswide

UK received \$4.91 million in grants from the U.S. Department of Homeland Security for six research and development projects, including a project designed to protect milk from deliberate contamination during production. The projects – most of which will be conducted at UK’s Center for Visualization and Virtual Environments – are designed to help overcome safety concerns arising from terrorism.

5. Chellgren Center for Undergraduate Excellence Is Collaborative Effort

A new undergraduate initiative called the Chellgren Center for Undergraduate Excellence will promote undergraduate success and achievement while unifying the efforts of many successful undergraduate programs. The UK undergraduate programs that form the new Chellgren Center Federation are the UK Intercollegiate Debate Program, the Honors Program, the Gaines Center for the Humanities, the Discovery Seminar Program, the Office of External Scholarships, the Office of Study Abroad, and the Office of Undergraduate Research. The program is named for Paul Chellgren, a retired chief executive officer of Ashland Inc. and a former, long-time member of the UK Board of Trustees. Chellgren, a UK alumnus, contributed \$1.5 million to the university, which was matched with funds from the Kentucky Research Challenge Trust Fund, to create a new endowed faculty chair and some endowed professorships.

6. Additional Grants for Partnership Enhancement Programs Received

UK received a second round of grants for Partnership Enhancement Programs from its highly successful Appalachian Math Science Partnership (AMSP) program to elementary, middle, and high schools in 12 Appalachian counties in Kentucky, Tennessee, and Virginia. The new enhancement projects total \$242,584 and are part of the largest National Science Foundation grant ever received by UK – more than \$22 million over five years – all aimed at improving the math and science skills of Appalachian students. Test scores of students in Appalachian schools that received previous partnership enhancement grants showed that students who studied in AMSP-enhanced math and science programs earned dramatically improved math and science grades.

7. Low-income, Uninsured Eastern Kentuckians to Receive Health Care

The UK College of Medicine and North Fork Valley Community Health Board received a federal grant to extend health care services to more low-income, uninsured Eastern Kentuckians. The \$650,000 annual health center grant, announced by the U.S. Department of Health and Human Services, will enable the current UK Family Medicine and Family Dental Clinic to expand its primary, behavioral, and oral health services to those living in Dice, Ky., lower-income areas of Hazard in Perry County, and portions of Knott and Leslie counties.

8. Agreement Signed to Plant Hardwood Trees on Coal-mined Land

The reforestation of coal-mined lands using high-value hardwood trees will be promoted under an initiative signed by Governor Ernie Fletcher, UK, and representatives of the Kentucky

coal industry. UK and state government have partnered with six other states and their universities in the Appalachian Regional Reforestation Initiative, started by the federal Office of Surface Mining. The states, their universities, and OSM are working to promote the planting of more high-value hardwood trees on active and abandoned coal mines in this region.

9. UK Follows Through With Commitment to Horse Industry

The UK College of Agriculture's Equine Initiative, a recently formed partnership between the college and the horse industry, is conducting a survey to give those involved in the industry an opportunity to define the kind of future they want for Kentucky. The survey is another step aimed at fulfilling UK's mission to be more responsive to the daily needs of the equine industry.

10. Kentuckians Among First to Benefit From Lung Disease Research

Residents of Eastern Kentucky are the first in the United States to be able to participate in the Burden of Lung Disease (BOLD) research study, which is part of UK's Marty Driesler Cancer Project. The study will focus on the problem of chronic lung disease in the 5th Congressional District. It is estimated that counties in the district have some of the highest rates of lung disease in the nation.

11. Kentucky Minority and Women Contractors Will Benefit from New Initiative

The Federal Highway Administration through the Kentucky Transportation Cabinet's Office for Business and Occupational Development has provided funding to the Kentucky Small Business Development Centers to implement an extensive training program for minority and women contractors and Disadvantaged Business Enterprises throughout the Commonwealth. Kentucky Association of Disadvantaged Business Enterprises will collaborate with KSBDC and continue their efforts to support DBEs. Additional supporters include the Kentucky Cabinet for Economic Development's Small Minority Business Division and Kentucky Housing Corporation. The goal of the Kentucky Minority and Women Construction Training Program is to increase the pool of qualified Disadvantaged Business Enterprises by enhancing technical, managerial and entrepreneurial skills in order to meet the demands of a rapidly changing highway industry.

12. 60 Minutes Focuses on UK's Parkinson's Disease Research

On Sept. 11, the CBS news show *60 Minutes* aired a feature on UK Parkinson's disease researchers and patients who participated in the clinical trial of the drug GDNF. The drug was withdrawn from testing by its manufacturer amidst controversy last year. CBS correspondent Lesley Stahl visited UK's campus in August to film patients and researchers.

13. Women's Choir Makes University's First International Tour

The UK Women's Choir, conducted by Lori Hetzel, director of UK Women's Choir and associate director of choral ensembles, toured Europe this summer, marking the first international tour by a choral group from the UK School of Music. The ensemble consisted of 50

singers from the present UK Women's Choir, as well as alumni singers. The group gave five concerts in some of the most musically interesting cities in France, Germany and Austria.

14. Student Awards and Achievements

Gwendoline Ayuninjam, doctoral student in Educational Policy Studies and Evaluation, has been named UK's first Holmes Scholar.

Mike Carter, Merritt Johnson, Matt Major and Robert Sellin, Engineering, were selected for the Navy's Nuclear Propulsion Officer Candidate Program in 2003 and have now been commissioned and are serving on active duty. Johnson and Sellin are from Lexington, Carter from Nicholasville and Johnson from Franklin, respectively. All have requested duty in the Navy's fleet of attack submarines.

Carol Lunney, Family Studies master's degree student, has been awarded the second annual Paul Kevin Burberry Award from the UK Interdisciplinary Human Development Institute.

Hussein A. Mahmoud, Anthropology, was awarded a two-year, post-doctoral appointment at the Max Planck Institute of Social Anthropology, Germany, one of Europe's leading anthropological research centers. Mahmoud will be writing and conducting research on ethnic conflict and identity in northern Kenya and southern Ethiopia, and will take a temporary leave from his faculty position at Egerton University, Kenya.

Regina R. Washington, Public Health doctoral student, was awarded the 2005 National Rural Health Association/John Snow, Inc. Student Achievement Award, which honors outstanding graduate students. She is the founder and current president of the UK Student NRHA Chapter.

15. Faculty and Staff Awards and Achievements

Heidi Milia Anderson, Pharmacy, was elected as a Fellow of the American Pharmacists Association during the APhA 2005 annual meeting held in Orlando, Fla.

Ernest Bailey, Veterinary Science, earned the first-ever award for outstanding service to the equine genomics community from the international Havemeyer Equine Genome Workshop, a group of about 30 participating laboratories in the United States and several countries worldwide. The group worked together to develop a horse gene map that is instrumental in identifying genetic causes of inherited equine diseases.

Beth E. Barnes, Journalism and Telecommunications, has been elected to the Accrediting Council on Education in Journalism and Mass Communications.

Suketu Bhavsar, Physics and Astronomy, has been named director of the university's Honors Program.

David Bradshaw, Philosophy, has won the Morris D. Forkosch Prize from the Journal of the History of Ideas. The prize is for the best work of intellectual history by a new author published in 2004. It has been awarded to his book, titled *Aristotle East and West: Metaphysics and the Division of Christendom*. The book, published by Cambridge University Press, is a parallel history of the development of metaphysics and natural theology in the eastern and western halves of Christendom during the Middle Ages. It is thereby also a study of the philosophical background to the division between the Eastern Orthodox and Roman Catholic churches.

The Principal's Excellence Program that Tricia Browne-Ferrigno, Educational Leadership Studies, developed in collaboration with Pike County Public Schools will be featured as a best practices case study in a fieldbook, *Leadership & Sustainability: System Thinkers in Action*, written by Michael Fullan.

Tricia Browne-Ferrigno, Educational Leadership Studies, was an invited panelist for the first annual Innovation Forum in Best Practices in Leadership sponsored by the First Ring Leadership Academy, Cleveland State University.

James Campbell, Music, has taken first place in the Percussive Arts Society 2006 Composition Contest. Campbell's new work, *Garage Drummer* is scored for multiple percussion solo with CD accompaniment.

Terry Childers, Von Allmen Electronic Commerce Center, was recently elected as a Fellow of the Society for Consumer Psychology. He was named the 2005 recipient of the honor based on his contributions to the field of consumer psychology.

Governor Ernie Fletcher has appointed James G. Cibulka, Education, as the newest member to the Education Professional Standards Board.

Bob Coleman, Extension, was awarded the most prestigious honor bestowed by the Equine Science Society upon one of its members. Coleman received the 2005 Distinguished Service Award in Equine Science from the ESS at its symposium in Tuscon, Ariz. The award recognizes outstanding contributions to the field of equine science.

John Connolly, Computational Sciences, has been elected as the president of Hewlett Packard - Consortium for Advanced Scientific and Technological computing, a worldwide organization of institutions that use Hewlett Packard supercomputers.

Stephen DeMers, Educational and Counseling Psychology, was appointed executive officer of the Association of State and Provincial Psychology Boards. The ASPPB is the alliance of state, provincial, and territorial agencies responsible for the licensure and certification of psychologists throughout the United States and Canada. DeMers assumed his position on Sept. 1, 2005.

Carol Pitts Diedrichs, Libraries, was elected to a position on the SOLINET Board of Directors. SOLINET is a non-profit membership organization serving more than 2,600 libraries of all types and sizes in 10 southeastern states and the Caribbean.

Stephen Dobson, Entomology, is one of a team of scientists from five countries awarded a \$10 million grant to further international efforts to combat a disease that strikes 50 million people a year worldwide. The grant, awarded by the Bill and Melinda Gates Foundation and administered by the Foundation for the National Institutes of Health, will enable scientists in the U.S., Australia, and Asia to study ways to improve methods for controlling mosquitoes that carry dengue viruses.

Dennis Doherty, Pulmonology, co-chaired the Sixth Oxygen Consensus Conference Aug. 26-28 in Denver, Colo., along with Denver pulmonologist Dr. Tom Petty. The conference was designed to bring together key leaders in scientific and clinical areas of oxygen therapy, insurance payers, oxygen manufacturers, and patients. Doherty also moderated and delivered the Opening Keynote Address lecture, including a panel discussion on the state of respiratory disease in America, during the World Congress Leadership Summit on Advances in Treating and Managing the Cost of Respiratory Disease.

The first novel written by Kim Edwards, English, has been chosen as a Barnes and Noble Discover Great New Writers title, as well as the Lexington Herald-Leader's book club selection for July. The novel, *The Memory Keeper's Daughter*, released at the end of June and in its third

printing, is a testament to the way life can take unexpected turns, and how two families' lives are intertwined in mystery, loss and grief. It is a tale of redemptive love. Edwards, a professor in the English Department in the College of Arts and Sciences, has won numerous awards including a Whiting Award and the Nelson Algren Award.

Ginny Ellington, Family Studies, earned the Outstanding Service Award from the Kentucky Association for Career and Technical Education.

Jody Ensmen is the new manager of the Health & Wellness Program at UK. In this role, she is responsible for the administration of the University's Health & Wellness Program as well as working collaboratively with multiple units across UK's campus to develop and implement programs that support the fiscal and physical well-being of the University and its employees.

Brenda G. Fahy, Anesthesiology, director of critical care anesthesiology, has been awarded a Society for Executive Leadership in Academic Medicine Award for Excellence. SELAM is committed to the advancement and promotion of women to executive positions in academic health professions through programs that enhance professional development and provide networking and mentoring opportunities.

Mark Farman, Plant Pathology, and graduate student Cathryn Rehmeier were members of an international collaboration to resolve the genome sequence of a rice blast fungus that is the most destructive pathogen of rice worldwide.

The American Society of Mining and Reclamation has presented Donald H. Graves, Forestry, the society's prestigious Reforestation Award.

Philip A. Greasley has been named University of Kentucky associate vice president for University Initiatives.

Michael Grice has been named director of the UK Singletary Center for the Arts.

Jennifer Grisham-Brown, Special Education and Rehabilitation Counseling, co-authored a book with Mary Louise Hemmeter, Vanderbilt University (formerly of UK) and Kristie Pretti-Frontczak of Kent State University. Published by Brookes Publishing Company, it is titled *Blended Practices for Teaching Young Children in Inclusive Settings*.

Kathy Grzech, Sponsored Program Development, has been named to a two-year term on the national advisory board of the Grants Resource Center of the American Association of State Colleges and Universities.

Thomas R. Guskey, Educational Policy Studies and Evaluation, recently delivered keynote presentations based on his research and writing on professional development at three national conferences. These included the Annual Summer Conference of the Consortium for Research on Educational Accountability and Teacher Evaluation in Memphis, Tenn.; the Summer Institute for School Teams sponsored by the National Association for Elementary School Principals and the HOPE Foundation in Williamsburg, Va.; and the Annual School Leadership Conference sponsored by the Kansas University Center for Research on Learning in Lawrence, Kan.

Sunny Ham, Nutrition and Food Science, has been awarded Best Paper Award from International Council on Hotel, Restaurant and Institutional Education annual conference, held in Las Vegas, on July 27-31, for an article *Food-away-from-home expenditure of senior households in the U.S.: A Heckman's Two-Step Approach*.

Dave Harris, Kentucky Geological Survey, will receive the 2005 Honorary Membership Award from the Eastern Section of the AAPG, recognizing distinguished service and devotion to the service and profession of geology. Harris served as lead investigator on the development of a new map of an Eastern Kentucky oil- and natural gas-producing geologic formation known as

the Big Lime.

David Hasselbacher, and David Hiestand, Pulmonary, Critical Care, and Sleep Medicine, are among an elite group of 40 researchers whose work was selected for presentation and the Second Annual Respiratory Disease Young Investigators Forum.

J. Todd Hastings and Sen-Ching Cheung, Engineering, received the Ralph E. Powe Junior Faculty Enhancement Award from Oak Ridge Associated Universities for the 2005-2006 academic year. The \$5,000 grants to both Hastings and Cheung will be matched by UK.

Ardis Dee Hoven, Medicine, was elected to the Board of Trustees of the American Medical Association on the first ballot, and Baretta R. Casey, Infectious Diseases, was elected to the AMA Council on Medical Education on the first ballot.

Carol E. Jordan, Center for Research on Violence Against Women, has been awarded the Paul H. Chapman Award, which is given each year by the Foundation for Improvement of Justice located in Atlanta.

Joel Lee, Health Services Management, has been appointed by the director of the National Institute of Standards and Technology to the 2005 Board of Examiners for the Malcolm Baldrige National Quality Award. The award is the highest level of national recognition for performance excellence that an organization in the United States can receive.

A research breakthrough by Guo-Min Li, Markey Cancer Center, is the cover story in the September issue of the premier international research science journal, Cell Magazine.

David Mannino, Pulmonary, Critical Care, and Sleep Medicine, has been elected co-chair of the USCOPD Coalition. This coalition comprises over 30 health professional organizations, patient organizations and foundations, and government agencies with the goal of increasing awareness and action for chronic obstructive pulmonary disease.

Roy Moore, Journalism and Telecommunications, has been appointed to succeed Buck Ryan as executive director of the University of Kentucky's First Amendment Center, based in the School of Journalism and Telecommunications.

Melanie Otis, Social Work, was appointed to a three-year term (2005-2008) on the Council on Social Work Education, Council on Sexual Identity and Gender Expression.

Gary Palmer, Plant and Soil Sciences, received the 2004 Senator Wendell Ford Leadership Award from the Burley Tobacco Growers Cooperative Association for his leadership and service to Kentucky's tobacco farming families.

Philip Palmgreen, Communications and Information Sciences, will be awarded the 2005 Gerald M. Phillips Award for Distinguished Applied Communication Scholarship given by the National Communication Association.

Johné M. Parker, Mechanical Engineering, was named by the American Society of Mechanical Engineers as an ASME Congressional Fellow for 2005-06. As part of the ASME Federal Fellows program, Congressional Fellows serve a year in the office of a U.S. senator or representative, in federal agencies, the White House, or with a congressional committee or subcommittee providing engineering and technical advice to policy makers in Washington.

Cancer patients and their physicians have new answers as they seek the best treatment for the devastating problem of spinal cord compression caused by metastatic cancer, thanks to Dr. Roy A. Patchell, Neurosurgery, and colleagues at UK. In the Aug. 20 Lancet, Patchell's research team evaluated surgical and radiation therapy options and concluded that direct decompressive surgery plus postoperative radiotherapy is more effective than radiotherapy alone.

Kathy Walsh-Piper, UK Art Museum, has been selected to attend the invitation-only Acadia Summer Art Program in Acadia Maine. The program, now in its 12th year, is a think-tank

of artists, museum directors, curators, architects, musicians, writers, scholars and thinkers who gather every summer on Maine's Mount Desert Island to share and inspire ideas and collaborations.

David Puleo, Graduate Center for Biomedical Engineering, has been appointed to serve in the Musculoskeletal Tissue Engineering Study Section of the NIH.

Ana Rueda, Hispanic Studies, has been elected president of the Ibero-American Society for Eighteenth-Century Studies, an affiliate of the American Society for Eighteenth-Century Studies.

During a recent research trip, Ross Scaife, Modern and Classical Languages, Literatures and Cultures, was noted in the April 25 edition of the New York Sun. Scaife journeyed to the papyrology laboratory at Oxford University to investigate an entirely new method, inspired partially in collaboration with the UK Medical Center, to read ancient papyrus documents that have remained unread since discovery because they are too delicate to be unrolled without severe damage.

Anita M. Superson, Philosophy, has received a \$30,000 postdoctoral leave fellowship to complete a book on moral skepticism.

Liz Swanson, Architecture, and Michael McKay, former faculty member and alumnus of UK School of Architecture, took one of two first place honors in the Bridge/Park Design Competition, Buzzards Bay Village Association, Bourne, Mass. The international architectural design competition was sponsored by the Buzzards Bay Village Association and was funded by the U.S. Army Corp of Engineers; the Commonwealth of Massachusetts; and the Town of Bourne, Mass.

Don Thornton, Parking and Transportation Services, has been re-appointed to the Board of Advisors of the International Parking Institute, headquartered in Fredericksburg, Va. This will be his third term on the Board of Advisors.

Larry Turner, Cooperative Extension Service, has been selected as one of only 21 participants from across the nation for the inaugural Food Systems Leadership Institute.

Brian Umberger, Kinesiology and Health Promotion, had his paper titled *Constraints Necessary To Produce Realistic Simulations Of Vertical Jumping* nominated for the Andrzej Komor Award at the International Symposium on Computer Simulation in Biomechanics, the official meeting of the International Society of Biomechanics Technical Group on Computer Simulation. The Komor award recognizes the work of promising new scientists working in the area of computer simulation as related to the biomechanics of human movement.

16. Faculty Research Activities

Allen, David, Kentucky Transportation Center, \$100,000, Developing A Database of Materials, Design, Construction, and Experimental Techniques of Pavements 04-272

Allen, David, Kentucky Transportation Center, \$100,000, Evaluation and Implementation Issues for the 2002 Pavement Design Guide 04-273

Allen, David, Kentucky Transportation Center, \$100,000, Developing A Database of Materials, Design, Construction, and Experimental Techniques of Pavements 04-272

Allen, David, Kentucky Transportation Center, \$100,000, Evaluation and Implementation Issues for the 2002 Pavement Design Guide 04-273

Allen, David, Kentucky Transportation Center, \$100,000, Durability Issues of Asphalt Pavements (Polymer Modifiers) 05-298

Allen, David, Kentucky Transportation Center, \$70,000, Analysis of Permeability of Kentucky Hot Mix Pavements 05-299

Allen, David, Kentucky Transportation Center, \$125,000, Identification and Determination of Distress Levels and Rehabilitation Cycles 05-300

Allen, David, Kentucky Transportation Center, \$50,000, Rideability Issues for Asphalt and Concrete Specification Modifications 05-304

Allen, David, Kentucky Transportation Center, \$50,000, Investigation of the Extended Use of GPR (Ground Penetration Radar) for Measuring in-situ Material Quality Characteristics 06-307

Allen, David, Kentucky Transportation Center, \$100,000, Up-Date ESAL Forecasting Estimation Program for Superwave Pavement Design 06-308

Allen, David, Kentucky Transportation Center, \$25,000, Evaluation of the Effects of Diamond Grinding on PCC Pavement Performance 06-310

Anderson, Kimberly, Chemical and Materials Engin., \$8,888, Monitoring and Assessment of Human Health and Responses to Countermeasures During Space Deconditioning - Scope Account

Andrade, Francisco, Physiology, \$256,609, Determinants of Extraocular Muscle Function

Andrews, Rodney, Center for Applied Energy Research, \$48,456, Pitch-Polymer CO2 Adsorbents

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Armstrong, Debra, Kentucky Community Cancer Prog, \$5,000, KWCSF Program Evaluation

Balke, C., Medicine, \$148,500, Ca Permeable Na Channels & Cardiacs Cell Excitation

Badenhop, Suzanne, Family & Consumer Sciences, \$2,500, Home Technology (Equipment & Utilities) Handbook

Barrett, Monica, Kentucky Transportation Center, \$90,000, Incident Management Strategic Plan Recommendations 06-321

Black, Esther, Pharmaceutical Tech, \$20,000, Targeting Small Molecule Therapeutics to Non-Small Cell Lung Cancer Using Genomic Approaches

Brion, Gail, Civil Engineering, \$91,628, State EPSCoR: UK Environmental Initiative

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Bruemmer, Dennis, Internal Medicine, \$65,000, Anti-Inflammatory and Antiproliferative Liver X Receptor Signaling Pathways in Cardiovascular Disease

Boyanovsky, Boris, Internal Medicine, \$41,000, sPLA2 GV and GX Hydrolysis of LDL Results in Free Fatty Acid and Lyso-Phospholipid Generation and Affects Macrophage Functions

Cantrell, Susan, Education Reform & Research, \$183,964, Kentucky Adult Education Literacy Institute (KAELI) Grant

Chen, Mei, Civil Engineering, \$51,000, Develop an Archived Data Management System Prototype 04-279

Chen, Zhi, RCTF-Electrical Engineering, \$260,915, State EPSCoR: UK Nano Initiative

Chen, Zhi, RCTF-Electrical Engineering, \$651,094, Building Kentucky's New Economy with EPSCoR: UK Nano Initiative

Chen, Linda, Nutritional Sciences, \$207,000, Doctoral Training in Nutrition and Chronic Diseases

Chen, Mei, Civil Engineering, \$51,000, Develop an Archived Data Management System Prototype 04-279

Chen, Mei, Civil Engineering, \$88,000, Route Disruption Analysis 05-289

Chen, Mei, Civil Engineering, \$61,000, Speed Estimation and Database Program 06 305

Chen, Zhi, RCTF-Electrical Engineering, \$260,915, State EPSCoR: UK Nano Initiative

Chen, Zhi, RCTF-Electrical Engineering, \$651,094, Building Kentucky's New Economy with EPSCoR: UK Nano Initiative

Connolly, John, Computational Sciences, \$3,000,000, Building Kentucky's New Economy with EPSCoR

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Cothran, Ernest, Veterinary Science, \$27,000, Genetic Analysis of Wild Horse and Burro Blood Samples

Crabtree, Joseph, Kentucky Transportation Center, \$60,000, Update Kentucky's Statewide Intelligent Transportation Systems (ITS) Architecture 06-320

Creamer, Trevor, Molecular & Cellular Biochemistry, \$40,000, Fellowship Veronique Hermann / Structural Characterization of Exon 1 of Huntingtin, an Emerging Drug Target

Daugherty, Alan, Internal Medicine, \$116,962, Role of MMPs in AngII Induced Abdominal Aortic Aneurysms

Dillon, Carl, Agr Economics, \$56,806, Scope G: An Econometric Assessment of Specialty Grain Crops in Kentucky

Dwoskin, Linda, Pharmaceutical Tech, \$1,338,604, Development of Novel Treatments for Nicotine Addiction

Fakhoury, Toufic, Neurology, A Double-Blind, Placebo-Controlled, Dose-Escalation, Parallel-Group Study of E2007 Given as Adjunctive Therapy in Patients with Refractory Partial Seizures

Farman, Mark, Plant Pathology, \$9,325, Scope C: Whole Genome Analysis of Pathogen-Host Recognition and Subsequent Responses in the Rice Blast Patho-System -- REU Supplement

Fox, Charles, Entomology, \$6,000, Scope B: REU: The Evolutionary Genetics of Sexual-Size Dimorphism in a Seed-Feeding Beetle

Gardner, Susan, Physics and Astronomy, \$113,063, Tests of Fundamental Symmetries

Garen, John, Center for Business & Econ Res, Kentucky Utility Service Territory Database and Modeling System

Geneve, Robert, Horticulture, \$25,000, Scope D: Development of a Novel Production System to Enhance the Survival and Growth of Flowering Dogwood, *Cornus florida*, a High Value Crop with Potential for Kentucky Producers

Glauert, Howard, Nutritional Sciences, Mechanisms of Hepatic Tumor Promotion by PCBs: Carry forward account for Superfund year 8 funds

Greenberg, Richard, Internal Medicine, A Phase I Randomized, Placebo-Controlled, Double-Blind, Dose Ranging Study of the Safety, Tolerability and Immunogenicity of a *Clostridium difficile* Toxoid Vaccine, Alum Adsorbed, in Healthy Adult volunteers (18-55 years)

Goodrum, Paul, Civil Engineering, \$82,000, Analysis of the Direct and Indirect Costs of Utility and Right-of-Way Conflicts on Construction Roadway Projects 05-293

Graves II, Ronnie, Kentucky Transportation Center, \$125,000, WIM Technologies 05-

Graves II, Ronnie, Kentucky Transportation Center, \$75,000, Evaluation of Extended Truck Weight Impacts 06-309

Greenberg, Richard, Internal Medicine, A Double-Blind, Placebo-Controlled, Dose-Finding, Phase II Study To Assess the Safety, Tolerability, and Immunogenicity of Three Dose Levels of ACAM3000 Modified Ankara (MVA) Smallpox Vaccine in Adults With and Without Previous Smallpox Vaccination

Grisham-Brown, Jennifer, Special Ed. & Rehab Counseling, \$250,000, An Evaluation of the Governor's Initiative in Early Childhood Education (KIDS NOW Evaluation Project)

Grisham-Brown, Jennifer, Special Ed. & Rehab Counseling, \$24,840, Person-Centered Training for Services to Students with Deaf Blindness

Hanley, Carol, Tracy Farmer Cntr for the Environment , \$10,000, Natural Resource Academy for Urban Youth

Hackbart, Merl, Management, \$35,000, Long Term Options and Implications for Enhancing Transportation Finance 05-302

Hahn, Ellen, Nursing Instruction, \$110,000, Community Partnerships for Tobacco Cessation and Prevention

Hancher, Donn, Civil Engineering, \$70,000, Improve Safety of Workers during Highway Construction and Maintenance 06-323

Harik, Issam, Civil Engineering, \$100,000, Seismic Evaluation of the Parkways in Western Ky 02-246

Harik, Issam, Civil Engineering, \$75,000, Remote Monitoring of Bridge Piers for Barge Impact 06-322

Harik, Issam, Civil Engineering, \$26,500, Testing and Calibration of the Bridge Management System

Harik, Issam, Civil Engineering, \$100,000, Seismic Evaluation of the Parkways in Western Ky 02-246

Harik, Issam, Civil Engineering, \$26,500, Testing and Calibration of the Bridge Management System

Harrison, Lenn, Livestock Diag Disease Control, \$478,500, Diagnostic Laboratory Services for Farmers and Agribusinesses

Hastings, Jeffrey, Electrical and Computer Engineering, \$5,000, Self-Referencing Surface-Plasmon Sensors

Havens, Jennifer, Behavioral Science, \$60,075, Jefferson County Family Drug Court Evaluation, Year 2

Hildebrand, David, Plant & Soil Sciences, \$15,000, Epoxy Fatty Acid Accumulation in Seed Oil

Hopkins, Tommy, Kentucky Transportation Center, \$75,000, Reduction of Stresses on Buried Rigid Highway Structures Using the Imperfect Ditch Method and Expanded Polystyrene (Geofoam) 01-228

Hopkins, Tommy, Kentucky Transportation Center, \$74,000, Engineering Properties of the Soft Soil Layer at the Top of Highway Soil Subgrades 03-270

Hopkins, Tommy, Kentucky Transportation Center, \$75,000, Reduction of Stresses on Buried Rigid Highway Structures Using the Imperfect Ditch Method and Expanded Polystyrene (Geofoam) 01-228

Hopkins, Tommy, Kentucky Transportation Center, \$74,000, Engineering Properties of the Soft Soil Layer at the Top of Highway Soil Subgrades 03-270

Hopkins, Tommy, Kentucky Transportation Center, \$100,000, By Products Resource Manual 05-296

Hopkins, Tommy, Kentucky Transportation Center, \$109,000, Use of Ultra Lightweight Geofoam to Reduce Stresses in Highway Culvert Extensions 05-297

Hopkins, Tommy, Kentucky Transportation Center, \$50,000, Stockpiling Hydrated Lime-Soil Mixture 06-313

Hopwood, Theodore, Kentucky Transportation Center, \$90,000, Coatings, Sealants and Filters to Address Bridge Concrete Deterioration and Aesthetics 05-291

Hopwood, Theodore, Kentucky Transportation Center, \$70,000, Disposal of Bridge Pant Debris 05-292

Huffman, Gerald, CFFLS, \$132,000, Production and Storage of Hydrogen from Coal

Huffman, Gerald, CFFLS, \$80,000, Analytical Characterization of Catalysts and Reaction Products

Huffman, Gerald, CFFLS, \$92,000, Program Management

Huffman, Gerald, CFFLS, \$132,000, Production and Storage of Hydrogen from Coal

Huffman, Gerald, CFFLS, \$80,000, Analytical Characterization of Catalysts and Reaction Products

Huffman, Gerald, CFFLS, \$92,000, Program Management

Huffman, Gerald, CFFLS, \$975,000, Development of Novel Technologies for the Production and Storage of Hydrogen from Coal Using C1 Chemistry

Izu, Leighton, Internal Medicine, \$100,000, Calcium Waves in Atrial Cells

Jay, Michael, Pharmaceutical Tech, \$23,000 Kentucky Cancer Experimental Therapeutics Program Jay Scope

Jay, Michael, Pharmaceutical Science & Tech, \$32,700, SaberMate HPLC Assay and Dissolution Assay Development

Jay, Michael, Pharmaceutical Science & Tech, \$15,000, Formulation and Regulatory Option Assessment for PD-CPST-01

Jay, Michael, Pharmaceutical Science & Tech, \$15,000, Formulation and Regulatory Option Assessment for PD-CPST-01

Jaynes, Christopher, RCTF-Computer Science, \$213,400, State EPSCoR: UK Virtual Environments Initiative

Jaynes, Christopher, RCTF-Computer Science, \$511,599, Building Kentucky's New Economy with EPSCoR: UK Virtual Environments Initiative

Jaynes, Christopher, RCTF-Computer Science, \$213,400, State EPSCoR: UK Virtual Environments Initiative

Jennings, Edward, Martin School of Public Policy, \$400,000, Institute for Federalism and Intergovernmental Relations

Jones, Jeffery, Center for Prevention Research, \$150,000, Coordinated School Health Grants Evaluation

Jones, Judy, Rural Ky Healthcare, \$1,791,900

Kachroo, Pradeep, Plant Pathology, \$7,850, Scope A: Fatty Acid Signaling Pathway and its Role in Plant Defense -- REU Supplement

Karathanasis, Anastasios, Plant & Soil Sciences, \$45,000, Soil Morphology Training Course for Onsite Septic Systems

Kearns, Jacqueline, Interdisc Human Development Institute, Ky. Alternate Portfolio

King, Victoria, Internal Medicine, \$60,500, ProstaglandinE2-EP4 Axis and AngiotensinII-Induced Abdominal Aortic Aneurysms

Kreis II, Steven, Kentucky Transportation Center, \$10,000, Statewide Planning Scenario Synthesis 05-303

Kreis II, Steven, Kentucky Transportation Center, \$60,000, High Level Benefit Cost Estimate 06-306

Lacefield, Eugene, Plant & Soil Sciences, \$24,000, Scope I: Testing Novel Soybean Varieties

Lacki, Michael, Forestry, \$32,975, Status, Distribution, and Reproductive Characteristics of River Otters in Kentucky

Lee, Chad, Plant & Soil Sciences, \$32,684, Scope H: New No-till Corn Silage Opportunities in Kentucky

Lewis, Carolyn, Nursing Instruction, Public Health Nurse Leadership Scholars' Workshops and Module Updates

Li, Mengtao, Dentistry Research & Graduate Studies, \$193,852, Cooperative Roles of Tat & K-Cyclin in Kaposi's Sarcoma

Lile, Joshua, Behavioral Science, \$130,601, A Pharmacological Analysis of Delta 9-THC in Humans

Lock, Sharon, Nursing Instruction, \$18,057, The Nurse Practitioner Agricultural Study

Lock, Sharon, Nursing Instruction, \$18,057, The Nurse Practitioner Agricultural Study

Lynn, Bert, Chemistry, \$51,555, Mechanism of MnSOD Expression in Normal and Tumor Cells

Maehr, David, Forestry, \$12,000, Cooperative Cerulean Warbler Forest Management Project

Mannino, David, Internal Medicine, \$13,700, BOLD Participant Support

Maragos, William, Neurology, \$100,000, Targeted Mitochondrial Uncoupling in Focal Cerebral Ischemia

Marshall Jr., W, Library Administration, \$200,503, UK Appalachian Collections Project

Mccormick, Malkanthie, Internal Medicine, \$18,500, TB Control Program

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Mccormick, Katherine, Special Ed. & Rehab Counseling, \$208,606, University of Kentucky First Step Technical Assistance Team

Mcniel, Robert, Horticulture, \$74,484, Scope C: Hydrangea macrophylla as Cut Woody Stems for the Florist Trade

Mentzer, Robert, Surgery/Department, \$365,750, Adenosine and Pyruvate Protection During Heart Surgery

Molinaro, Mary, Library Administration, \$310,000, National Digital Newspaper Program Phase One: The Kentucky Test Bed, or KNP Redux

Montross, Michael, Biosystems & Ag Eng, \$40,170, Scope F: Evaluation of High Fermentable Corn Hybrids in Kentucky

Muse Jr., Kenneth, Obstetrics & Gynecology, A Phase 3, Continuation Study to Evaluate the Long-Term Safety of Asoprisnil in Subjects with Uterine Leiomyomata Incorporating Amendment 1

Naugle, Lottie, Center for Entrepreneurship, \$328,800, Center for Business Development: Kentucky Business Environmental Assistance Program-Air Quality Memorandum of Understanding

- O'Connor, Lisa, School of Library & Information Science, \$6,600, TRAILS-9
Assessment
- Ormsbee, Lindell, Civil Engineering, \$78,500, Kentucky River Watershed Management
Ormsbee, Lindell, Civil Engineering, \$78,500, Kentucky River Watershed Management
Orthel, Bryan, School of Interior Design, \$10,000, Inside Main Street: Guidelines for the
Adaptive Use of Interior Spaces in Traditional Business Districts
- Peiter, R, Community & Leadership Devel, \$28,200, Leadership Activities for Rural
Youth
- Perrier, Donald, Pharmacy Practice & Science, \$580,000, Research and Information
Systems Management for the KY Department for Mental Health/Mental Retardation
Perry, Sharyn, RCTF-1-Plant Sciences-Agronomy, \$250,000, Mechanisms of Gene
Expression by the embryo MADS-factor AGL15, and roles in Glycine max Somatic
Embryogenesis
- Pfeiffer, T, Plant & Soil Sciences, \$46,660, Scope J: Edamame Production Systems:
Improving Spring Transplant Production
- Piercy, Larry, Biosystems & Ag Eng, \$30,000, Cooperative Extension Radon and Indoor
Air Quality Education
- Pigman, Jerry, Kentucky Transportation Center, \$60,000, Evaluation of Work Zone
Safety Operations and Issues 05-287
- Pigman, Jerry, Kentucky Transportation Center, \$65,000, Technical Support for
Implementation of Access Management Plan 05-290
- Pigman, Jerry, Kentucky Transportation Center, \$50,000, Economic Costs of Low
Seatbelt Usage in Kentucky 06-315
- Pigman, Jerry, Kentucky Transportation Center, \$75,000, Investigate Low-Cost Safety
Measures at Signalized Intersections 06-316
- Pigman, Jerry, Kentucky Transportation Center, \$90,000, Traffic Control for Emergency
Responders 06-317
- Pigman, Jerry, Kentucky Transportation Center, \$25,000, Development of a Traffic Sign
Inventory System 06-318
- Pigman, Jerry, Kentucky Transportation Center, \$50,000, Evaluation of the Effectiveness
of Pavement Rumble Strips 06-319
- Potter, Daniel, Entomology, \$61,798, Scope B: Sustainable Management of Insect Pests
and Diseases of Nursery-Grown Maples in Kentucky
- Puleo, David, Center for Biomedical Engineering, \$6,259, Biomaterials with Rationally
Immobilized Growth Factors
- Raybould, Ted, Oral Health Science, A Phase 3, Multicenter, Randomized, Blinded,
Controlled Study of NV-101 for Efficacy and Safety in Patients Undergoing Simple Mandibular
Dental Procedures
- Raybould, Ted, Oral Health Science, A Phase 3, Multicenter, Randomized, Blinded,
Controlled Study of NV-101 for Safety and Efficacy in Pediatrics Patients Undergoing Simple
Dental Procedures (Protocol No. NOVA 05-PED) 5-9 year old
- Raybould, Ted, Oral Health Science, A Phase 3, Multicenter, Randomized, Blinded,
Controlled Study of NV-101 for Efficacy and Safety in Patients Undergoing Simple Maxillary
Dental Procedures
- Reed, Michael, International Programs, \$10,142, Norman Borling International
Agriculture Science Program

Reed, Michael, International Programs, \$80,000, Technical Assistance to the Extension System in Serbia

Rimmer, S., Geology, \$2,405, Organic Carbon Accumulation in Paleozoic Black Shales: An Opportunity for Mentorship Teams

Rogers, Freddie, Historic Preservation Master's Program, \$24,004, Blue Grass Airport Documentation Project

Rous, Beth, Interdisc Human Development Institute, \$373,617, Child Care Quality Services

Rous, Beth, Interdisc Human Development Institute, \$49,408, Child Care CCR&R Services

Sandidge, Rosetta, Curriculum & Instruction, \$87,150, Proposal for Year Tow Funding of the Teacher Quality Enhancement Grant Curriculum Review and Response Strand

Schardl, Christopher, Plant Pathology, \$57,906, Tall fescue endophyte effects on environmental stress tolerances

Schardl, Christopher, Plant Pathology, \$601,893, Advanced Genetic Technologies, KY

Schardl, Christopher, Plant Pathology, \$57,906, Tall fescue endophyte effects on environmental stress tolerances

Schmitt, Frederick, Sanders-Brown Center on Aging, \$153,739, A Double-blind, Trial of TempurPedic vs. Standard Mattresses for Agitation in Alzheimer's Disease

Schoenberg, Nancy, Behavioral Science, \$56,229, Appalachia Community Cancer Network

Sebastian, Juliann, Nursing Instruction, \$199,201, Nursing Management in Complex Systems - Rural Outreach

Shaffer, William, Orthopedic Surgery, A Prospective Multicenter Randomized Study Comparing Healos to Iliac Crest Autograft in a Posterolateral Lumbar Fusion (PLF) Approach

Shen, Zhongwei, Mathematics, \$72,001, Elliptic Boundary Value Problems in Non-Smooth Domains

Singleton, Michael, KY Injury Prevention & Research Center, \$45,418, Acquired Brain Injury and Spinal Cord Injury Surveillance

Sigler, Pamela, Family & Consumer Sciences, \$286,798, Kentucky Food Stamp Nutrition Program

Slack, Charles, Plant & Soil Sciences, \$9,000, Round Ready Alfalfa Established Stand Benefits

Smith, Douglas, Curriculum & Instruction, \$3,135, UK Perkins 06

Spalding, Mary, Curriculum & Instruction, \$43,000, Bluegrass Writing Project

Spear, Brett, Microbiology, Immunology & Molecular Gen, \$50,676, Generation of Rev1 Antisense Transgenic Mice

Stamatiadis, Nikiforos, Civil Engineering, \$75,000, Analysis of Inconsistencies Related to Design Speed, Operating Speed, and Speed Limits 05-286

Stewart, Sharon, Rehabilitation Sciences, \$116,291, The Rehabilitation Sciences Ph.D. Program: A Continuation

Stinchcomb, Audra, RCTF-Clinical Pharmaceutical Science, \$2,210, Evaluation of a Drug for Transferral Delivery

Stinchcomb, Audra, RCTF-Clinical Pharmaceutical Science, \$2,210, Evaluation of a Drug for Transferral Delivery

Sushko, Yuriy, Physics and Astronomy, \$45,044, Probing Quantum Phase Transitions by MuSR and Complementary Methods in Applied Pressure

Tannenbaum, Robert, Undergraduate Studies, \$115,800, Beckman Scholars Program

Tannock, Lisa, Internal Medicine, \$60,500, Serum Amyloid A and Vascular Proteoglycans in Atherosclerosis

Tanner, Bonnie, Family & Consumer Sciences, \$809,472, Health Education through Extension Leadership

Toussaint, Paul, Kentucky Transportation Center, \$200,000, State: Kentucky Cooperative Transportation Research Program KCTRP 06-26 State Funds Only

Toussaint, Paul, Kentucky Transportation Center, \$60,000, General Administration 06-50

Toussaint, Paul, Kentucky Transportation Center, \$90,000, Equipment Acquisition and Maintenance 06-51

Toussaint, Paul, Kentucky Transportation Center, \$50,000, Student Assistance 06-52

Toussaint, Paul, Kentucky Transportation Center, \$3,384,000, Federal: Kentucky Cooperative Transportation Research Program KCTRP 06-26 Federal Funds

Toussaint, Paul, Kentucky Transportation Center, \$10,000, General Administration 06-50

Toussaint, Paul, Kentucky Transportation Center, \$137,000, Unforeseen Investigations 06-56

Toussaint, Paul, Kentucky Transportation Center, \$100,000, Long-Term Monitoring of Experimental Features 85-107

Toussaint, Paul, Kentucky Transportation Center, \$90,500, Implementation 06-324

Toussaint, Paul, Kentucky Transportation Center, \$150,000, Miscellaneous State Projects 06-325

Toussaint, Paul, Kentucky Transportation Center, \$200,000, State: Kentucky Cooperative Transportation Research Program KCTRP 06-26 State Funds Only

Toussaint, Paul, Kentucky Transportation Center, \$60,000, General Administration 06-50

Toussaint, Paul, Kentucky Transportation Center, \$90,000, Equipment Acquisition and Maintenance 06-51

Toussaint, Paul, Kentucky Transportation Center, \$50,000, Student Assistance 06-52

Toussaint, Paul, Kentucky Transportation Center, \$3,384,000, Federal: Kentucky Cooperative Transportation Research Program KCTRP 06-26 Federal Funds

Toussaint, Paul, Kentucky Transportation Center, \$10,000, General Administration 06-50

Toussaint, Paul, Kentucky Transportation Center, \$137,000, Unforeseen Investigations 06-56

Toussaint, Paul, Kentucky Transportation Center, \$100,000, Long-Term Monitoring of Experimental Features 85-107

Ueland, Frederick, Obstetrics & Gynecology, Gynecologic Oncology Group

Ueland, Frederick, Obstetrics & Gynecology, A Phase II, Randomized, Placebo-Controlled, Double-Blind Study to Evaluate the Efficacy of Partuzumab (rhuMAb 2C4) in Combination with Gencitabine

Vansanford, D, Plant & Soil Sciences, \$26,750, Scope E: Antioxidant Activity of Soft Winter Wheat Cultivars

Voss, Stephen, Biological Sciences, \$166,886, Operational Support for the Ambystoma Genetic Stock Center

Wagner, George, Plant & Soil Sciences, \$50,000, KSEF R&D Excellence: Development of a System for Producing Highly Purified Proteins on the Plant Surface

Walker, James, Center on Drug and Alcohol Research, Follow-up Study/Outcome Project (TAAA)

Walker, James, Center on Drug and Alcohol Research, Follow-up Study/Outcome Project (TAAA)

Wang, Zhigang, Graduate Center for Toxicology, \$53,304, Generation of Rev1 Antisense Transgenic Mice

Wekstein, David, Sanders-Brown Center on Aging, \$28,000, Alzheimer's Disease Detection via Nonlinear Analysis of EEG

Werkmeister, Raymond, Kentucky Transportation Center, \$25,000, Conceptual Cost Estimating Guide 05-295

Werkmeister, Raymond, Kentucky Transportation Center, \$15,000, Project Cost Management Tracking System 05-301

Werkmeister, Raymond, Kentucky Transportation Center, \$35,000, Tracking Best Management Practices Used by KyTC for On-Site Erosion Control 06-311

Werkmeister, Raymond, Kentucky Transportation Center, \$35,000, Develop Environmental Course Content for Construction Inspection Training 06-312

Williams, Mark, Horticulture, \$70,719, Scope A: Evaluating the Sustainability of Two Widely Used Organic Production Systems and Their Potential Use in Kentucky

Wu, Shengqing, Modern & Classical Languages, \$40,000, Classical Lyric Modernities; Poetics, Gender, and Politics in Modern China (1900-1937)

Zeidler, Kimberly, Appalachian Center, \$50,000, Making sense of fractions Morehead

Zeidler, Kimberly, Appalachian Center, \$50,000, Making sense of fractions Richmond

Zeidler, Kimberly, Appalachian Center, \$10,000, Making sense of fractions Richmond

Zeidler, Kimberly, Appalachian Center, \$50,000, Exploring Energy Transformation

Zeidler, Kimberly, Appalachian Center, \$10,000, Exploring Energy Transformation

Zeidler, Kimberly, Appalachian Center, \$10,000, Making sense of fractions Morehead

Zeidler, Kimberly, Appalachian Center, \$50,000, Making sense of modern genetics

Zeidler, Kimberly, Appalachian Center, \$10,000, Making sense of modern genetics

Zeidler, Kimberly, Appalachian Center, \$50,000, Elementary Science Teacher Academy

Zeidler, Kimberly, Appalachian Center, \$10,000, Elementary Science Teacher Academy

Follow Up

Zeidler, Kimberly, Appalachian Center, \$50,000, Elementary Geometry Teacher Academy

Zeidler, Kimberly, Appalachian Center, \$10,000, Elementary Geometry Teacher Academy Follow Up

Zeidler, Kimberly, Appalachian Center, \$50,000, Elementary Math Teacher Academy

Zeidler, Kimberly, Appalachian Center, \$10,000, Elementary Math Teacher Academy

Follow Up

Zhu, Hongyan, Plant & Soil Sciences, \$153,066, Positional Cloning and Characterization of RCT1, an Anthracnose Resistance Gene in Medicago