

## I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

|                     |   |         |
|---------------------|---|---------|
| <b>\$12,329,586</b> | DOE-U.S. DEPARTMENT OF ENERGY   | 4012501 |
| <b>93016</b>        | OPERATING AND MANAGEMENT SUPPORT FOR THE AMES LABORATORY                          |         |
|                     | 11/1/08 to 12/31/15 RESEARCH  |         |
|                     | KING, ALEXANDER AMES LABORATORY DOE-VPR/ED  |         |
| <b>\$1,710,705</b>  | DOE-U.S. DEPARTMENT OF ENERGY   | 4012501 |
| <b>93016</b>        | OPERATING AND MANAGEMENT SUPPORT FOR THE AMES LABORATORY                          |         |
|                     | 11/1/08 to 12/31/15 RESEARCH  |         |
|                     | KING, ALEXANDER AMES LABORATORY DOE-VPR/ED  |         |
| <b>\$973,909</b>    | IOWA DEPARTMENT OF NATURAL RESOURCES  | 4734201 |
| <b>118466</b>       | LEOPOLD CENTER SUPPORT  |         |
|                     | 10/1/11 to 9/30/13 RESEARCH   |         |
|                     | RASMUSSEN, MARK LEOPOLD CENTER-AES/CALS   |         |
| <b>\$793,318</b>    | NSF-NATIONAL SCIENCE FOUNDATION   | 4204080 |
| <b>97619</b>        | THE FUNCTIONAL INTERACTOME OF CEREALS WITH THE FUNGAL BIOTROPH, BLUMERIA GRAMINIS |         |
|                     | 3/15/10 to 2/28/14 RESEARCH   |         |
|                     | BAUM, THOMAS PLANT PATHOLOGY-AES/CALS   |         |
| CO-PI               | NETTLETON, DANIEL STATISTICS-LAS  |         |
| CO-PI               | LESHEM-ACKERMAN, ADAH ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS                 |         |
| CO-PI               | WISE, ROGER PLANT PATHOLOGY-AES/CALS  |         |
| <b>\$715,000</b>    | AMERICAN CANCER SOCIETY   | 4006105 |
| <b>120408</b>       | EFFECT OF MUTATIONS ON THE ADHESION AND CLUSTERING OF E-CADHERINS IN CANCER       |         |
|                     | 7/1/13 to 6/30/17 RESEARCH  |         |
|                     | SIVASANKAR, SANJEEVI PHYSICS & ASTRONOMY-LAS                                      |         |
| <b>\$575,800</b>    | NSF-NATIONAL SCIENCE FOUNDATION   | 4207201 |
| <b>104052</b>       | NECO, GK-12: GROWING THE GREEN COLLAR WORKFORCE FOR THE 21ST CENTURY              |         |
|                     | 6/1/10 to 5/31/15 FELLOWSHIP  |         |
|                     | NIKOLAU, BASIL BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS              |         |
| CO-PI               | JOHNSTON, ELGIN MATHEMATICS-LAS   |         |
| CO-PI               | WOO, KEITH CHEMISTRY-LAS  |         |

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| <b>\$575,800</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4207201   |
| <b>104052</b>    | NECO, GK-12: GROWING THE GREEN COLLAR WORKFORCE FOR THE 21ST CENTURY  |   |
|                  | 6/1/10 to 5/31/15 FELLOWSHIP  |   |
| CO-PI            | GENALO, LAWRENCE  | MATERIALS SCIENCE & ENGINEERING-ENGR                            |
| CO-PI            | SHANKS, BRENT   | NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR |
| CO-PI            | LESHEM-ACKERMAN, ADAH   | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS                     |
| CO-PI            | SCHMIDT, DENISE   | CENTER FOR TECHNOLOGY IN LEARNING & TEACHING-HS                 |
| CO-PI            | DOBBS, DRENA  | GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS                   |
| CO-PI            | BOBIK, THOMAS   | BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS           |
| CO-PI            | LUBBERSTEDT, THOMAS   | AGRONOMY-AES/CALS   |
| CO-PI            | WURTELE, EVE  | GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS                   |
| CO-PI            | RAMAN, DAVID  | AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR                      |
| CO-PI            | SHANKS, JACQUELINE  | CHEMICAL & BIOLOGICAL ENGINEERING-ENGR                          |
| <b>\$541,755</b> | SBA-U.S. SMALL BUSINESS ADMINISTRATION  | 4350801   |
| <b>119442</b>    | FY 2013 SBDC COOPERATIVE AGREEMENT  |   |
|                  | 10/1/12 to 9/30/13 EXTENSION/PUBLIC   |   |
|                  | HECKMANN, JAMES   | BUSINESS ADMINISTRATION-BUS                                     |
| <b>\$498,941</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4201805   |
| <b>104771</b>    | I3: STRENGTHENING THE PROFESSORiate AT IOWA STATE UNIVERSITY: A CAMPUS NETWORK TO ENABLE STRONG SCIENCE AND DIVERSE COMMUNITIES |   |
|                  | 7/1/10 to 6/30/15 RESEARCH  |   |
|                  | QUISENBERRY, SHARRON  | VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED       |
| CO-PI            | ROVER, DIANE  | ELECTRICAL & COMPUTER ENGINEERING-ENGR                          |
| CO-PI            | BOWEN, BONNIE   | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS                     |
| <b>\$464,895</b> | NATIONAL ACADEMIES  | 4281702   |
| <b>122399</b>    | ANALYSIS OF THE SHRP 2 NATURALISTIC DRIVING STUDY DATA  |   |
|                  | 1/1/12 to 7/31/14 RESEARCH  |   |
|                  | HALLMARK, SHAUNA  | CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR           |
| CO-PI            | BURDINE, NICHOLAS   | INSTITUTE FOR TRANSPORTATION-VPR/ED                             |

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|------------------|---|---------|
| <b>\$461,814</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4206130 |
| <b>119504</b>    | COLLABORATIVE RESEARCH: THE ROLE OF HOST NUTRIENT CARRIERS IN PATHOGEN SUSCEPTIBILITY |         |
|                  | 5/1/13 to 4/30/16 RESEARCH  |         |
|                  | YANG, BING GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS                                   |         |
| <b>\$455,968</b> | NIH-NATIONAL INSTITUTES OF HEALTH   | 4304605 |
| <b>111962</b>    | DNA TARGETING BY TAL EFFECTORS  |         |
|                  | 9/1/11 to 4/30/14 RESEARCH  |         |
|                  | BOGDANOVE, ADAM PLANT PATHOLOGY-AES/CALS  |         |
| <b>\$450,000</b> | MONSANTO COMPANY  | 4004337 |
| <b>120826</b>    | CORN ROOTWORM VIRUSES AND RNA INTERFERENCE  |         |
|                  | 4/1/13 to 3/31/16 RESEARCH  |         |
|                  | BONNING, BRYONY ENTOMOLOGY-AES/CALS   |         |
| <b>\$435,911</b> | DOD-DEFENSE LOGISTICS AGENCY (DLA)  | 4213503 |
| <b>121889</b>    | IOWA PROCUREMENT TECHNICAL ASSISTANCE CENTER  |         |
|                  | 7/1/13 to 6/30/14 EXTENSION/PUBLIC  |         |
|                  | COX, RONALD CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT                              |         |
|                  | CO-PI RUSSENBERGER, PAMELA CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT               |         |
| <b>\$390,269</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4204031 |
| <b>95982</b>     | OPTIMAL SIRNA DESIGN BASED ON WHOLE GENOME THERMODYNAMIC ANALYSIS                     |         |
|                  | 9/1/09 to 8/31/14 RESEARCH  |         |
|                  | CHOU, HUI-HSIEN GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS                         |         |
| <b>\$364,012</b> | MONSANTO COMPANY  | 4004373 |
| <b>113904</b>    | CLONING OF QTLs REGULATING VARIATION IN KERNEL ROW NUMBER IN MAIZE                    |         |
|                  | 5/1/12 to 6/30/13 RESEARCH  |         |
|                  | SCHNABLE, PATRICK AGRONOMY-AES/CALS   |         |

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|------------------|---|--|
| <b>\$309,741</b> | IOWA DEPARTMENT OF TRANSPORTATION   | 4741773  |
| <b>122361</b>    | DEVELOPMENT OF A STRUCTURAL HEALTH MONITORING SYSTEM TO EVALUATE STRUCTURAL CAPACITY AND ESTIMATE REMAINING SERVICE LIFE FOR BRIDGES-ADDITIONAL SYSTEM DEPLOYMENTS<br>3/1/10 to 6/30/16 RESEARCH<br>PHARES, BRENT<br>CO-PI HALLMARK, SHAUNA | INSTITUTE FOR TRANSPORTATION-VPR/ED<br>INSTITUTE FOR TRANSPORTATION-VPR/ED                               |
| <b>\$291,000</b> | DOE-U.S. DEPARTMENT OF ENERGY   | 4012109  |
| <b>119250</b>    | RELATIVISTIC HEAVY ION PHYSICS<br>11/15/91 to 11/14/13 RESEARCH<br>HILL, JOHN<br>CO-PI ROSATI, MARZIA<br>CO-PI LAJOIE, JOHN<br>CO-PI OGILVIE, CRAIG   | PHYSICS & ASTRONOMY-LAS<br>PHYSICS & ASTRONOMY-LAS<br>PHYSICS & ASTRONOMY-LAS<br>PHYSICS & ASTRONOMY-LAS |
| <b>\$289,288</b> | NIH-NATIONAL INSTITUTES OF HEALTH   | 4302145  |
| <b>94529</b>     | STRUCTURAL STUDIES OF A T CELL SPECIFIC TYROSINE KINASE<br>5/1/09 to 4/30/14 RESEARCH<br>ANDREOTTI, AMY   | BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS   |
| <b>\$277,575</b> | UNIVERSITY OF CALIFORNIA DAVIS  | 4004123  |
| <b>111852</b>    | SUSTAINABLE EGG PRODUCTION: ANIMAL WELFARE, HUMAN HEALTH, ENVIRONMENTAL AND ECONOMIC ASPECTS<br>10/1/10 to 9/30/13 RESEARCH<br>XIN, HONGWEI   | AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS   |
| <b>\$276,544</b> | BIOMARIN PHARMACEUTICAL INC   | 4004376  |
| <b>122363</b>    | WORK IN SUPPORT OF ERT THERAPY IN THE MPS IIIB CANINE MODEL<br>1/1/13 to 12/31/14 RESEARCH<br>ELLINWOOD, NORMAN   | ANIMAL SCIENCE-AES/CALS  |
| <b>\$260,000</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4206132  |
| <b>120244</b>    | COOPERATIVELY FOLDED SUPRAMOLECULAR HOSTS ON ORGANIC AND AQUEOUS SOLUTION<br>6/1/13 to 5/31/16 RESEARCH<br>ZHAO, YAN  | CHEMISTRY-LAS  |

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|------------------|---|---------|------------|---|
| <b>\$256,995</b> | ABLYNX NV   |         |            | 4002369   |
| <b>122560</b>    | EFFICACY STUDY AND SAFETY ASSESSMENT FOLLOWING MULTIPLE DOSING OF INHALED ALX-0171 IN RSV-INFECTED NEONATAL LAMBS | 1/14/13 | to 1/14/15 | RESEARCH  |
| CO-PI            | ACKERMANN, MARK   |         |            | VETERINARY PATHOLOGY-VET                          |
|                  | HOSTETTER, SHANNON  |         |            | VETERINARY PATHOLOGY-VET                          |
| <b>\$253,324</b> | NIH-NATIONAL INSTITUTES OF HEALTH   |         |            | 4302117   |
| <b>114292</b>    | REGULATION OF SNARE-DEPENDENT VESICLE FUSION  | 5/1/12  | to 4/30/14 | RESEARCH  |
|                  | SHIN, YEON-KYUN   |         |            | BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS  |
| <b>\$240,196</b> | DOD-AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)   |         |            | 4212029   |
| <b>117787</b>    | HYBRID FS/PS CARS AND QUASI-CONTINUOUS BURST-MODE IMAGING FOR INVESTIGATING TURBULENT COMBUSTION DYNAMICS         | 4/15/12 | to 4/14/15 | RESEARCH  |
|                  | MEYER, TERRENCE   |         |            | MECHANICAL ENGINEERING-ENGR                       |
| <b>\$205,018</b> | NIH-NATL INST OF CHILD HEALTH & HUMAN DEVELOPMENT (NICHD)   |         |            | 4302354   |
| <b>116585</b>    | PHYLOGENY, STRUCTURE AND VIRULENCE CONTRIBUTIONS OF NMEC'S VIRULENCE PLASMIDS                                     | 6/22/12 | to 5/31/14 | RESEARCH  |
| CO-PI            | NOLAN, LISA   |         |            | VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET |
|                  | LI, GANWU   |         |            | VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET |
| <b>\$200,000</b> | NSF-NATIONAL SCIENCE FOUNDATION   |         |            | 4207123   |
| <b>119536</b>    | EVOLUTION OF THE MULTIVARIATE PHENOTYPE: PHYLOGENETIC TESTS OF SIZE AND SHAPE EVOLUTION IN SALAMANDERS            | 7/1/13  | to 6/30/16 | RESEARCH  |
|                  | ADAMS, DEAN   |         |            | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS       |
| <b>\$200,000</b> | IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP   |         |            | 4713051   |
| <b>122493</b>    | WATER AND NUTRIENT RESEARCH: IN-FIELD AND OFFSITE STRATEGIES, AMENDMENT #1  | 5/3/13  | to 6/30/13 | RESEARCH  |
| CO-PI            | HELMERS, MATTHEW  |         |            | AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT         |
|                  | CRUMPTON, WILLIAM   |         |            | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS       |

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|------------------|--|----------|---|---------|
| <b>\$178,110</b> | DEERE & COMPANY  |          |   | 4004370 |
| <b>121239</b>    | HARVESTER CONTROL DEVELOPMENT  |          |   |         |
|                  | 11/1/12 to 10/31/13  | RESEARCH |   |         |
|                  | DARR, MATTHEW  |          | AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS        |         |
| CO-PI            | MCNAULL, ROBERT  |          | AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS        |         |
| <b>\$170,000</b> | DOE-U.S. DEPARTMENT OF ENERGY  |          |   | 4012126 |
| <b>120031</b>    | INVESTIGATIONS IN GAMMA RAY ASTROPHYSICS AND ASTROPARTICLE PHYSICS   |          |   |         |
|                  | 5/1/13 to 3/31/14  | RESEARCH |   |         |
|                  | KRENNRICH, FRANK   |          | PHYSICS & ASTRONOMY-LAS                               |         |
| CO-PI            | WEINSTEIN, AMANDA  |          | PHYSICS & ASTRONOMY-LAS                               |         |
| <b>\$169,341</b> | NSF-NATIONAL SCIENCE FOUNDATION  |          |   | 4202171 |
| <b>113947</b>    | EVOLUTION OF DUPLICATED PATHWAYS AND NETWORKS FOLLOWING GENOME DOUBLING  |          |   |         |
|                  | 9/1/11 to 8/31/14  | RESEARCH |   |         |
|                  | WENDEL, JONATHAN   |          | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS           |         |
| CO-PI            | GROVER, CORRINNE   |          | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS           |         |
| <b>\$167,967</b> | IOWA DEPARTMENT OF TRANSPORTATION  |          |   | 4747932 |
| <b>121432</b>    | BIOFUEL CO-PRODUCT USES FOR PAVEMENT GEO-MATERIALS STABILIZATION: EXTENSIVE LAB CHARACTERIZATION AND FIELD DEMONSTRATION |          |   |         |
|                  | 5/9/13 to 4/30/15  | RESEARCH |   |         |
|                  | CEYLAN, HALIL  |          | CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR |         |
| CO-PI            | GOPALAKRISHNAN, KASTHURIRA   |          | CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR |         |
| CO-PI            | KIM, SUNG HWAN   |          | CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR |         |
| CO-PI            | HALLMARK, SHAUNA   |          | INSTITUTE FOR TRANSPORTATION-VPR/ED                   |         |
| <b>\$160,000</b> | DEERE & COMPANY  |          |   | 4004384 |
| <b>122445</b>    | GRAIN QUALITY ASSESSMENT, PHASE I  |          |   |         |
|                  | 1/1/13 to 10/31/13   | RESEARCH |   |         |
|                  | DARR, MATTHEW  |          | AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS        |         |

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|------------------|--|----------|--|---------|
| <b>\$152,149</b> | NSF-NATIONAL SCIENCE FOUNDATION  |          |  | 4206604 |
| <b>106189</b>    | STRUCTURAL INTERPRETATION OF PROTEIN INTERACTOMES  |          |  |         |
|                  | 8/1/10 to 7/31/14  | RESEARCH |  |         |
|                  | JERNIGAN, ROBERT   |          | BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS  |         |
| <b>\$151,337</b> | NATIONAL PORK BOARD  |          |  | 4532369 |
| <b>120793</b>    | DEVELOPMENT OF AFRICAN SWINE FEVER DIAGNOSTIC ASSAYS FOR ORAL FLUIDS   |          |  |         |
|                  | 6/1/13 to 5/31/14  | RESEARCH |  |         |
|                  | ZIMMERMAN, JEFFREY   |          | VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |         |
|                  | CO-PI HARRIS, DELBERT  |          | ANIMAL SCIENCE-AES/CALS                                |         |
|                  | CO-PI GIMENEZ-LIROLA, LUIS   |          | VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |         |
| <b>\$146,067</b> | UNIVERSITY OF CONNECTICUT  |          |  | 4041723 |
| <b>122460</b>    | FACTORS INFLUENCING THE HEALTH BEHAVIORS OF YOUNG AFRICAN AMERICAN ADULTS  |          |  |         |
|                  | 8/23/12 to 12/31/13  | RESEARCH |  |         |
|                  | CUTRONA, CAROLYN   |          | PSYCHOLOGY-LAS   |         |
| <b>\$145,431</b> | USDA-AGRICULTURAL RESEARCH SERVICES (ARS)  |          |  | 4194025 |
| <b>116995</b>    | GREAT PLAINS AGROFORESTRY: EVALUATION OF BIOENERGY FEEDSTOCK AND CARBON SEQUESTRATION AS POTENTIAL LONG-TERM REVENUE STREAMS TO DIVERSIFY LANDOWNER INCOME |          |  |         |
|                  | 4/22/13 to 8/31/15   | RESEARCH |  |         |
|                  | TYNDALL, JOHN  |          | NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS         |         |
|                  | CO-PI HALL, RICHARD  |          | NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS         |         |
| <b>\$145,000</b> | NSF-NATIONAL SCIENCE FOUNDATION  |          |  | 4207117 |
| <b>115712</b>    | BONDING ANALYSIS OF AB INITIO ELECTRONIC WAVE FUNCTIONS IN MOLECULES   |          |  |         |
|                  | 5/1/12 to 4/30/15  | RESEARCH |  |         |
|                  | RUEDENBERG, KLAUS  |          | CHEMISTRY-LAS  |         |
|                  | CO-PI GORDON, MARK   |          | CHEMISTRY-LAS  |         |
| <b>\$140,000</b> | NSF-NATIONAL SCIENCE FOUNDATION  |          |  | 4206242 |
| <b>120390</b>    | COLLABORATIVE RESEARCH: UNDERWATER DISTRIBUTED ANTENNAS SYSTEMS: FUNDAMENTAL LIMITS AND PRACTICAL DESIGNS  |          |  |         |
|                  | 7/15/13 to 6/30/16   | RESEARCH |  |         |
|                  | WANG, ZHENGDAO   |          | ELECTRICAL & COMPUTER ENGINEERING-ENGR                 |         |

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|------------------|--|---------|
| <b>\$139,981</b> | NSF-NATIONAL SCIENCE FOUNDATION  | 4206097 |
| <b>116132</b>    | REU SITE: BIOLOGICAL MATERIALS AND PROCESSES (BIOMAP)  |         |
|                  | 3/15/12 to 2/28/15 RESEARCH  |         |
|                  | LAMM, MONICA CHEMICAL & BIOLOGICAL ENGINEERING-ENGR  |         |
| CO-PI            | NARASIMHAN, BALAJI CHEMICAL & BIOLOGICAL ENGINEERING-ENGR  |         |
| <b>\$131,359</b> | MONSANTO COMPANY   | 4003326 |
| <b>122428</b>    | EVALUATION SEED TREATMENT PRODUCTS ON CORN/ CORN ROTATION FOR STAND COUNT, VIGOR AND YIELD                               |         |
|                  | 4/1/13 to 3/31/14 RESEARCH   |         |
|                  | ROBERTSON, ALISON PLANT PATHOLOGY-EXT  |         |
| <b>\$131,248</b> | NSF-NATIONAL SCIENCE FOUNDATION  | 4204038 |
| <b>115884</b>    | CAREER: PHOTOPROTECTION FOR TOLERANCE TO ABIOTIC STRESS: DISCOVERY THROUGH NATURAL GENETIC VARIATION                     |         |
|                  | 5/15/12 to 4/30/17 RESEARCH  |         |
|                  | SALAS-FERNANDEZ, MARIA AGRONOMY-AES/CALS   |         |
| <b>\$125,632</b> | MINNESOTA CORN GROWERS ASSOCIATION   | 4594031 |
| <b>120986</b>    | CORN PROTEIN PLASTICS FOR AGRICULTURAL PRODUCTS  |         |
|                  | 5/10/13 to 8/31/15 RESEARCH  |         |
|                  | GREWELL, DAVID AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS  |         |
| CO-PI            | SCHRADER, JAMES HORTICULTURE-AES/CALS  |         |
| CO-PI            | SCHRADER, JAMES HORTICULTURE-AES/CALS  |         |
| <b>\$122,042</b> | NSF-NATIONAL SCIENCE FOUNDATION  | 4202019 |
| <b>113087</b>    | TOWARDS INTEGRATED NOISE THERMOMETRY AND ITS APPLICATIONS IN EMBEDDED TEMPERATURE MEASUREMENTS                           |         |
|                  | 9/1/11 to 8/31/15 RESEARCH   |         |
|                  | CHEN, DEGANG ELECTRICAL & COMPUTER ENGINEERING-ENGR  |         |
| <b>\$120,569</b> | NSF-NATIONAL SCIENCE FOUNDATION  | 4202564 |
| <b>120280</b>    | MOLECULAR PROGRAMMING: BOTTOM-UP FABRICATION OF MULTI-ELEMENT COMPOUNDS WITH PRECISELY-DEFINED STRUCTURE AND COMPOSITION |         |
|                  | 6/1/13 to 5/31/16 RESEARCH   |         |
|                  | VELA-BECERRA, JAVIER CHEMISTRY-LAS   |         |



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|                  |  |                                     |         |
|------------------|--|-------------------------------------|---------|
| <b>\$119,857</b> | IOWA DEPARTMENT OF TRANSPORTATION  |                                     | 4747930 |
| <b>121525</b>    | EVALUATION OF THE NEED FOR LONGITUDINAL MEDIAN JOINTS IN BRIDGE DECKS ON DUAL STRUCTURES                               |                                     |         |
|                  | 5/1/13 to 4/30/15  | RESEARCH                            |         |
|                  | PHARES, BRENT  | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| CO-PI            | HALLMARK, SHAUNA   | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| CO-PI            | DENG, YAOHUA   | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| <b>\$106,778</b> | USDA-FS-FOREST PRODUCTS LABORATORY (FPL)   |                                     | 4121712 |
| <b>122208</b>    | COVERED BRIDGE RATING THROUGH LIVE LOAD TESTING--PHASE II  |                                     |         |
|                  | 4/26/13 to 6/30/17   | RESEARCH                            |         |
|                  | PHARES, BRENT  | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| CO-PI            | HALLMARK, SHAUNA   | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| <b>\$105,512</b> | CORNELL UNIVERSITY   |                                     | 4044055 |
| <b>121077</b>    | GENETIC NETWORKS REGULATING STRUCTURE AND FUNCTION OF THE MAIZE SHOOT APICAL MERISTEM                                  |                                     |         |
|                  | 2/1/13 to 1/31/18  | RESEARCH                            |         |
|                  | YU, JIANMING   | AGRONOMY-AES/CALS                   |         |
| <b>\$101,846</b> | BODYMEDIA INC  |                                     | 4002866 |
| <b>121298</b>    | EVALUATION OF BODYMEDIA PATCH BASE AGREEMENT BUDGET  |                                     |         |
|                  | 4/1/13 to 3/31/16  | RESEARCH                            |         |
|                  | WELK, GREGORY  | KINESIOLOGY-HS                      |         |
| <b>\$99,970</b>  | IOWA DEPARTMENT OF TRANSPORTATION  |                                     | 4747929 |
| <b>121513</b>    | INVESTIGATION OF NEGATIVE MOMENT REINFORCING IN BRIDGE DECKS   |                                     |         |
|                  | 5/1/13 to 4/30/15  | RESEARCH                            |         |
|                  | PHARES, BRENT  | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| CO-PI            | HALLMARK, SHAUNA   | INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| <b>\$97,752</b>  | AJINOMOTO USA INC  |                                     | 4004333 |
| <b>122329</b>    | EVALUATING THE PRODUCT (OR BYPRODUCT) TRYPTOPHAN AS A SOIL APPLIED FERTILIZER OR FOLIAR APPLIED PLANT GROWTH REGULATOR |                                     |         |
|                  | 5/15/13 to 12/31/15  | RESEARCH                            |         |
|                  | MOORE, KENNETH   | AGRONOMY-AES/CALS                   |         |

**I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                          |   |  |
|--------------------------|---|--|
| <b>\$86,092</b>          | NSF-NATIONAL SCIENCE FOUNDATION   | 4206077  |
| <b>94520</b>             | CAREER: SCULPTING ELECTRIC MACHINES FOR UNIDIRECTIONAL MOTION   |  |
| 8/15/09                  | to 7/31/14  | RESEARCH   |
| ALIPRANTIS, DIONYSIOS    |   | ELECTRICAL & COMPUTER ENGINEERING-ENGR                 |
| <b>\$79,592</b>          | NSF-NATIONAL SCIENCE FOUNDATION   | 4206026  |
| <b>111899</b>            | COLLABORATIVE RESEARCH: METABOLIC ENGINEERING OF TERPENOID INDOLE ALKALOIDS USING TRANSCRIPTIONAL REGULATORS IN C. ROSEUS HAIRY ROOTS |  |
| 2/15/12                  | to 1/31/15  | RESEARCH   |
| SHANKS, JACQUELINE       |   | CHEMICAL & BIOLOGICAL ENGINEERING-ENGR                 |
| <b>\$77,452</b>          | NSF-NATIONAL SCIENCE FOUNDATION   | 4206207  |
| <b>115844</b>            | CAREER: PLANT-IN-A-CHIP SYSTEM FOR SENSING AND MODULATING ROOT-PATHOGEN INTERACTIONS  |  |
| 5/15/12                  | to 4/30/17  | RESEARCH   |
| PANDEY, SANTOSH          |   | ELECTRICAL & COMPUTER ENGINEERING-ENGR                 |
| <b>\$74,944</b>          | NATIONAL PORK BOARD   | 4532370  |
| <b>120853</b>            | UNDERSTANDING AND SEARCHING FOR IMMUNE PROTECTION AGAINST GROUP C ROTAVIRUS IN PIGLETS  |  |
| 7/1/13                   | to 6/30/14  | RESEARCH   |
| Yoon, KYOUNG-JIN         |   | VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |
| CO-PI MADSON, DARIN      |   | VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |
| CO-PI STEVENSON, GREGORY |   | VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |
| <b>\$74,637</b>          | KANSAS STATE UNIVERSITY   | 4104076  |
| <b>122113</b>            | BIOMASS SORGHUM GENOMICS AND PHENOMICS  |  |
| 3/15/13                  | to 8/31/14  | RESEARCH   |
| YU, JIANMING             |   | AGRONOMY-AES/CALS                                      |
| <b>\$70,921</b>          | SOUTH DAKOTA STATE UNIVERSITY   | 4004985  |
| <b>122682</b>            | SOYBEAN APHID MANAGEMENT, RESISTANCE, AND OUTREACH IN THE NORTH CENTRAL REGION  |  |
| 3/1/13                   | to 2/28/14  | RESEARCH   |
| HODGSON, ERIN            |   | ENTOMOLOGY-AES/CALS                                    |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |  |          |  |         |
|-----------------|--|----------|--|---------|
| <b>\$67,272</b> | POLLINATOR PARTNERSHIP   |          |  | 4004361 |
| <b>121962</b>   | HONEY BEE USE OF WEEDS POTENTIALLY CONTAMINATED WITH NEONICOTINOID TREATED CORN SEED PLANTING DUST                 |          |  |         |
|                 | 3/15/13 to 1/6/14  | RESEARCH |  |         |
|                 | HARRIS, MARY   |          | NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS |         |
| CO-PI           | COATS, JOEL  |          | ENTOMOLOGY-AES/CALS                            |         |
| CO-PI           | PALMER, REID   |          | AGRONOMY-AES/CALS                              |         |
| <b>\$67,106</b> | UNIVERSITY OF IOWA   |          |  | 4752306 |
| <b>118864</b>   | SAFETY ANALYSIS FOR A NOVEL INTRASPINAL IMPLANT  |          |  |         |
|                 | 4/1/12 to 5/31/14  | RESEARCH |  |         |
|                 | JEFFERY, NICHOLAS  |          | VETERINARY CLINICAL SCIENCES-VET               |         |
| <b>\$65,000</b> | STOLLER ENTERPRISES  |          |  | 4003318 |
| <b>122514</b>   | FIELD TRIAL EVALUATION OF STOLLER ENTERPRISES SEED   |          |  |         |
|                 | 4/1/13 to 3/31/14  | RESEARCH |  |         |
|                 | ROBERTSON, ALISON  |          | PLANT PATHOLOGY-EXT                            |         |
| <b>\$64,633</b> | AMERICAN RIVER NUTRITION INC   |          |  | 4004368 |
| <b>122370</b>   | SUPPLEMENTATION OF LAYING-HEN FEED WITH ANNATTO TOCOTRIENOLS FOR EGG NUTRIENT ENRICHMENT AND CHOLESTEROL REDUCTION |          |  |         |
|                 | 6/1/13 to 6/30/15  | RESEARCH |  |         |
|                 | WANG, TONG   |          | FOOD SCIENCE & HUMAN NUTRITION-AES/CALS        |         |
| <b>\$62,100</b> | MONSANTO COMPANY   |          |  | 4003320 |
| <b>122486</b>   | IMPROVING OUR UNDERSTANDING OF THE EPIDEMIOLOGY OF CLAVIBACTER MICHIGANESIS SUBSP. NEBRASKENSIS ON CORN            |          |  |         |
|                 | 3/1/13 to 2/28/14  | RESEARCH |  |         |
|                 | ROBERTSON, ALISON  |          | PLANT PATHOLOGY-EXT                            |         |
| <b>\$55,000</b> | CONSORTIUM FOR PLANT BIOTECHNOLOGY RESEARCH INC  |          |  | 4046601 |
| <b>104028</b>   | NEW GENES FOR STRESS TOLERANCE IN BIOENERGY CROPS  |          |  |         |
|                 | 1/1/10 to 12/31/13   | RESEARCH |  |         |
|                 | HOWELL, STEPHEN  |          | GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS  |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |   |         |
|-----------------|---|---------|
| <b>\$55,000</b> | BASF PLANT SCIENCE L P  | 4006601 |
| <b>121101</b>   | NEW GENES FOR STRESS TOLERANCE IN BIOENERGY CROPS                               |         |
|                 | 1/1/12 to 12/31/12 RESEARCH   |         |
|                 | HOWELL, STEPHEN PLANT SCIENCES INSTITUTE-VPR/ED                                 |         |
| <b>\$52,436</b> | UNITED SOYBEAN BOARD  | 4594026 |
| <b>122114</b>   | DEVELOPING SOYBEAN OIL-BASED PLASTIC FAT AS SUBSTITUTE FOR PARAFFIN AND BEESWAX |         |
|                 | 10/1/11 to 5/31/14 RESEARCH   |         |
|                 | WANG, TONG FOOD SCIENCE & HUMAN NUTRITION-AES/CALS                              |         |
| CO-PI           | JARBOE, DARREN CENTER FOR CROPS UTILIZATION RESEARCH-AES/CALS                   |         |
| CO-PI           | YAO, LINXING FOOD SCIENCE & HUMAN NUTRITION-AES/CALS                            |         |
| <b>\$50,482</b> | NORTH DAKOTA SKY  | 4002859 |
| <b>122286</b>   | BIOAVAILABILITY OF AN IRON-ENRICHED FERMENTED SUPPLEMENT                        |         |
|                 | 5/1/13 to 12/1/13 RESEARCH  |         |
|                 | REDDY, MANJU FOOD SCIENCE & HUMAN NUTRITION-HS                                  |         |
| <b>\$50,000</b> | BATTELLE MEMORIAL INSTITUTE-PACIFIC NORTHWEST NATIONAL LABORATORY               | 4042514 |
| <b>120599</b>   | JOINT ANALYSIS BY PNNL AND IOWA STATE UNIVERSITY                                |         |
|                 | 11/21/11 to 12/31/13 RESEARCH   |         |
|                 | HU, GUIPING INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR                 |         |
| CO-PI           | BROWN, ROBERT MECHANICAL ENGINEERING-ENGR                                       |         |
| <b>\$50,000</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4202068 |
| <b>122072</b>   | IGERT: A NEW PHD PROGRAM IN WIND ENERGY SCIENCE, ENGINEERING AND POLICY         |         |
|                 | 9/1/11 to 8/31/16 RESEARCH  |         |
|                 | MCCALLEY, JAMES ELECTRICAL & COMPUTER ENGINEERING-ENGR                          |         |
| CO-PI           | PETERSON, DAVID POLITICAL SCIENCE-LAS   |         |
| CO-PI           | WOLF, JOHN PHILOSOPHY & RELIGIOUS STUDIES-LAS                                   |         |
| CO-PI           | RODRIGUEZ, MA GREENLEE SCHOOL OF JOURNALISM & COMMUNICATION-LAS                 |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |   |         |
|-----------------|---|---------|
| <b>\$49,956</b> | IOWA DEPARTMENT OF TRANSPORTATION   | 4747928 |
| <b>121564</b>   | DEVELOPMENT OF ASPHALT DYNAMIC MODULUS MASTER CURVE USING FALLING WEIGHT DEFLECTOMETER (FWD) MEASUREMENTS<br>5/15/13 to 5/14/14 RESEARCH<br>CEYLAN, HALIL CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR<br>CO-PI GOPALAKRISHNAN, KASTHURIRA CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR<br>CO-PI KIM, SUNG HWAN CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR<br>CO-PI HALLMARK, SHAUNA INSTITUTE FOR TRANSPORTATION-VPR/ED |         |
| <b>\$48,948</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4202556 |
| <b>121733</b>   | US-INDIA WORKSHOPS ON ORGANIC PHOTOVOLTAIC MATERIALS AND DEVICES<br>6/1/13 to 5/31/14 RESEARCH<br>DALAL, VIKRAM ELECTRICAL & COMPUTER ENGINEERING-ENGR  |         |
| <b>\$47,196</b> | NATIONAL PORK BOARD   | 4534061 |
| <b>120739</b>   | EVALUATION OF TRANSPORTATION CONDITIONS ON PERFORMANCE OF WEANED AND FEEDER PIGS<br>5/15/13 to 5/14/14 EXTENSION/PUBLIC<br>HARMON, JAY AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS<br>CO-PI XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS<br>CO-PI HOFF, STEVEN AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS<br>CO-PI BAAS, THOMAS ANIMAL SCIENCE-AES/CALS   |         |
| <b>\$46,029</b> | IOWA DEPARTMENT OF TRANSPORTATION   | 4747806 |
| <b>121901</b>   | DEVELOPMENT OF CRASH MODIFICATION FACTORS FOR CURVE CHEVRONS<br>5/1/13 to 4/30/14 RESEARCH<br>HALLMARK, SHAUNA CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR  |         |
| <b>\$45,573</b> | NATIONAL CATTLEMENS BEEF ASSOCIATION  | 4004375 |
| <b>121241</b>   | EFFECT OF SUPPLEMENTAL VITAMIN C IN THE FEEDLOT ON CARCASS CHARACTERISTICS AND TENDERNESS OF STEAKS FROM STEERS FED DIETS CONTAINING 0.25% OR 0.55% SULFUR<br>4/1/13 to 5/31/14 RESEARCH<br>HANSEN, STEPHANIE ANIMAL SCIENCE-AES/CALS<br>CO-PI LONERGAN, STEVEN ANIMAL SCIENCE-AES/CALS<br>CO-PI POGGE, DANIELLE ANIMAL SCIENCE-AES/CALS  |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |   |         |
|-----------------|---|---------|
| <b>\$45,375</b> | MICHIGAN STATE UNIVERSITY   | 4042177 |
| <b>122407</b>   | FARMER DECISION MAKING STRATEGIES FOR IMPROVED SOIL FERTILITY MANAGEMENT IN MAIZE-BEAN PRODUCTION SYSTEMS<br>4/1/08 to 9/30/13 RESEARCH<br>MAZUR, ROBERT SOCIOLOGY-LAS  |         |
| <b>\$39,564</b> | FLORIDA STATE COLLEGE JACKSONVILLE  | 4042822 |
| <b>118965</b>   | DELTA: DISSEMINATING EFFECTIVE LEARNING THROUGH AUTOMATION<br>4/1/10 to 9/30/13 RESEARCH<br>HAGEDORN, LINDA SCHOOL OF EDUCATION-HS  |         |
| <b>\$38,459</b> | UNITED TECHNOLOGIES CORPORATION-PRATT & WHITNEY DIVISION  | 4006038 |
| <b>122324</b>   | HYBRID RANS/LES APPROACH TO TURBULENCE MODELING FOR TURBOMACHINERY<br>7/1/13 to 12/31/13 RESEARCH<br>DURBIN, PAUL AEROSPACE ENGINEERING-ENGR  |         |
| <b>\$35,670</b> | EUROPEAN FOOD SAFETY AUTHORITY  | 4006319 |
| <b>122408</b>   | SCIENTIFIC SERVICES TO SUPPORT EFSA SYSTEMATIC REVIEWS (LOT 7- ANIMAL HEALTH AND WELFARE)<br>4/9/13 to 6/4/13 RESEARCH<br>OCONNOR, ANNETTE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET   |         |
| <b>\$35,395</b> | CLINTON COUNTY AGRICULTURAL EXTENSION DISTRICT  | 4003325 |
| <b>122223</b>   | EXPANDING 4-H YOUTH DEVELOPMENT IN CLINTON COUNTY<br>7/1/13 to 6/30/15 EXTENSION/PUBLIC<br>JOHANSEN, LUANN EXTENSION 4-H YOUTH DEVELOPMENT-EXT  |         |
| <b>\$34,000</b> | DOE-U.S. DEPARTMENT OF ENERGY   | 4012004 |
| <b>115949</b>   | INDUSTRIAL ASSESSMENT CENTER<br>9/30/11 to 9/30/14 RESEARCH<br>MAXWELL, GREGORY MECHANICAL ENGINEERING-ENGR<br>CO-PI PETERS, FRANK INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR<br>CO-PI CHRISTY, COLIN CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT |         |

## I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

|                 |  |  |         |
|-----------------|--|--|---------|
| <b>\$32,026</b> | NATIONAL CORN GROWERS ASSOCIATION  |  | 4594029 |
| <b>122456</b>   | DEVELOPMENT OF FUNCTIONAL GENOMICS SOFTWARE TOOLS (FGSTS) FOR MAIZEGDB   |  |         |
|                 | 7/1/13 to 1/31/14  | RESEARCH                                       |         |
|                 | VOLLBRECHT, ERIK   | GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS  |         |
| <b>\$30,500</b> | USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)  |  | 4123002 |
| <b>122279</b>   | AGDISCOVERY SUMMER ENRICHMENT PROGRAM-2013   |  |         |
|                 | 3/1/13 to 12/31/13   | EXTENSION/PUBLIC                               |         |
|                 | CHRISTOFFEL, REBECCA   | NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS |         |
| CO-PI           | BLANCHONG, JULIE   | NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS |         |
| <b>\$30,000</b> | USDA-FOREST SERVICE (FS)   |  | 4124545 |
| <b>122234</b>   | EVALUATION OF FACTORS INFLUENCING THE DEVELOPMENT AND SPREAD OF LAUREL WILT ON SASSAFRAS AND CAMPHOR, AND DETERMINATION OF THE ROLE OF RAFFAELEA SPP. ASSOCIATED WITH XYLEBORUS GLABRATUS IN THE |  |         |
|                 | 7/1/13 to 6/30/17  | RESEARCH                                       |         |
|                 | HARRINGTON, THOMAS   | PLANT PATHOLOGY-AES/CALS                       |         |
| <b>\$29,882</b> | SOUTH DAKOTA STATE UNIVERSITY  |  | 4004986 |
| <b>122666</b>   | SOYBEAN APHID MANAGEMENT, RESISTANCE, AND OUTREACH IN THE NORTH CENTRAL REGIONS  |  |         |
|                 | 3/1/13 to 2/28/14  | RESEARCH                                       |         |
|                 | ONEAL, MATTHEW   | ENTOMOLOGY-AES/CALS                            |         |
| <b>\$29,548</b> | UNIVERSITY OF IOWA   |  | 4752101 |
| <b>122233</b>   | IMPACTS OF EXTENDED DROUGHT CONDITIONS AND GLOBAL WARMING ON GROUNDWATER RESOURCES IN IOWA AND THE UPPER MIDWEST   |  |         |
|                 | 7/1/13 to 6/30/14  | RESEARCH                                       |         |
|                 | FRANZ, KRISTIE   | GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS          |         |
| CO-PI           | SIMPKINS, WILLIAM  | GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS          |         |
| CO-PI           | ACAR, OZLEM  | GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS          |         |
| <b>\$28,166</b> | MID-IOWA HEALTH FOUNDATION   |  | 4002860 |
| <b>121813</b>   | IOWA ADVERSE CHILDHOOD EXPERIENCES STUDY   |  |         |
|                 | 5/1/13 to 4/30/14  | RESEARCH                                       |         |
|                 | GUDMUNSON, CLINTON   | HUMAN DEVELOPMENT & FAMILY STUDIES-HS          |         |
| CO-PI           | HONG, GONG-SOOG  | HUMAN DEVELOPMENT & FAMILY STUDIES-HS          |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |   |  |         |
|-----------------|---|--|---------|
| <b>\$28,166</b> | MID-IOWA HEALTH FOUNDATION  |  | 4002860 |
| <b>121813</b>   | IOWA ADVERSE CHILDHOOD EXPERIENCES STUDY  |  |         |
|                 | 5/1/13 to 4/30/14   | RESEARCH                               |         |
| CO-PI           | NEPPL, TRICIA   | HUMAN DEVELOPMENT & FAMILY STUDIES-HS  |         |
| <b>\$25,920</b> | OTTUMWA REGIONAL LEGACY FOUNDATION  |  | 4003327 |
| <b>121476</b>   | OTTUMWA C2C PROPOSAL: HOUSING NEEDS ASSESSMENT  |  |         |
|                 | 2/1/13 to 12/31/13  | EXTENSION/PUBLIC                       |         |
| CO-PI           | BORICH, TIMOTHY   | COMMUNITY & REGIONAL PLANNING-EXT      |         |
| CO-PI           | DAS, BISWA  | COMMUNITY & REGIONAL PLANNING-EXT      |         |
| CO-PI           | DAS, BISWA  | COMMUNITY & REGIONAL PLANNING-EXT      |         |
| <b>\$25,000</b> | TECHNOLOGY ASSOCIATION OF IOWA  |  | 4001759 |
| <b>121292</b>   | IT-ADVENTURES/IT-OLYMPICS 2013  |  |         |
|                 | 12/27/12 to 5/27/13   | EXTENSION/PUBLIC                       |         |
|                 | JACOBSON, DOUG  | ELECTRICAL & COMPUTER ENGINEERING-ENGR |         |
| <b>\$25,000</b> | XM COMPANIA DE EXPERTOS   |  | 4006014 |
| <b>122285</b>   | EPRC SUPPORT  |  |         |
|                 | 1/1/13 to 12/31/13  | RESEARCH                               |         |
|                 | CHRISTY, COLIN  | ELECTRICAL & COMPUTER ENGINEERING-ENGR |         |
| <b>\$25,000</b> | SOUTH DAKOTA STATE UNIVERSITY   |  | 4004987 |
| <b>122678</b>   | SOYBEAN APHID MANAGEMENT, RESISTANCE, AND OUTREACH IN THE NORTH CENTRAL REGION                                    |  |         |
|                 | 3/1/13 to 2/28/14   | RESEARCH                               |         |
|                 | BONNING, BRYONY   | ENTOMOLOGY-AES/CALS                    |         |
| <b>\$24,000</b> | TJ TECHNOLOGIES INC   |  | 4004904 |
| <b>122671</b>   | PROTOCOL 13-F-1023 CORN ROOT WORM: EVALUATION AND COMPARISON OF VARIOUS SEED TREATMENTS FOR CORN ROOTWORM CONTROL |  |         |
|                 | 5/10/13 to 8/31/14  | RESEARCH                               |         |
| CO-PI           | GASSMANN, AARON   | ENTOMOLOGY-AES/CALS                    |         |
| CO-PI           | WEBER, PATRICK  | ENTOMOLOGY-AES/CALS                    |         |



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|                 |   |                  |   |         |
|-----------------|---|------------------|---|---------|
| <b>\$23,111</b> | BODYMEDIA INC   |                  |   | 4002866 |
| <b>121298</b>   | EVALUATION OF BODYMEDIA PATCH STUDY AGREEMENT BUDGET  |                  |   |         |
|                 | 1/31/13 to 12/30/13   | RESEARCH         |   |         |
|                 | WELK, GREGORY   |                  | KINESIOLOGY-HS  |         |
| <b>\$23,000</b> | MONSANTO COMPANY  |                  |   | 4004396 |
| <b>122668</b>   | PROTOCOL 2013-01-39-01 CRW RESISTANCE MANAGEMENT IN CORN GROWING REGION   |                  |   |         |
|                 | 4/1/13 to 12/31/13  | RESEARCH         |   |         |
|                 | GASSMANN, AARON   |                  | ENTOMOLOGY-AES/CALS                                   |         |
| CO-PI           | WEBER, PATRICK  |                  | ENTOMOLOGY-AES/CALS                                   |         |
| <b>\$22,500</b> | WEIDEMANN ASSOCIATES INC  |                  |   | 4043023 |
| <b>116390</b>   | STRENGTHENING VALUE CHAINS FOR MAIZE AND SOYBEANS FOR UGANDAN WOMEN FARMERS   |                  |   |         |
|                 | 2/1/12 to 1/31/13   | EXTENSION/PUBLIC |   |         |
|                 | HANSEN, RAYMOND   |                  | VALUE ADDED AGRICULTURE-EXT                           |         |
| CO-PI           | WESTGATE, MARK  |                  | AGRONOMY-AES/CALS                                     |         |
| CO-PI           | SMITH, MARGARET   |                  | VALUE ADDED AGRICULTURE-EXT                           |         |
| CO-PI           | NAEVE, LINDA  |                  | VALUE ADDED AGRICULTURE-EXT                           |         |
| <b>\$20,000</b> | PRECAST CONCRETE INSTITUTE  |                  |   | 4006040 |
| <b>121940</b>   | UNDERSTANDING DYNAMIC DECAY OF ROCKING PRECAST CONCRETE MEMBERS   |                  |   |         |
|                 | 7/1/13 to 6/30/14   | FELLOWSHIP       |   |         |
|                 | SRITHARAN, SIVALINGAM   |                  | CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR |         |
| <b>\$19,240</b> | NSF-NATIONAL SCIENCE FOUNDATION   |                  |   | 4204106 |
| <b>120728</b>   | DISSERTATION RESEARCH: PHYLOGENETIC PATTERNS AND PROCESSES OF REPEATED MORPHOLOGICAL EVOLUTION IN TURTLES   |                  |   |         |
|                 | 6/1/13 to 5/31/15   | RESEARCH         |   |         |
|                 | JANZEN, FREDRIC   |                  | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS      |         |
| CO-PI           | CORDERO, GERARDO  |                  | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS      |         |
| <b>\$19,224</b> | NSF-NATIONAL SCIENCE FOUNDATION   |                  |   | 4206131 |
| <b>120484</b>   | DISSERTATION RESEARCH: THE GENOME-WIDE OCCUPANCY AND THERMOSENSITIVITY OF HISTONE VARIANT H2A.Z IN EMBRYONIC CHRYSEMYS PICTA, A TURTLE WITH TEMPERATURE-DEPENDENT SEX DETERMINATION |                  |   |         |
|                 | 5/15/13 to 4/30/15  | RESEARCH         |   |         |
|                 | VALENZUELA-CASTRO, MARIA  |                  | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS           |         |

**I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |   |   |
|-----------------|---|---|
| <b>\$19,224</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4206131                                     |
| <b>120484</b>   | DISSERTATION RESEARCH: THE GENOME-WIDE OCCUPANCY AND THERMOSENSITIVITY OF HISTONE VARIANT H2A.Z IN EMBRYONIC CHRYSSEMYS PICTA, A TURTLE WITH TEMPERATURE-DEPENDENT SEX DETERMINATION<br>5/15/13 to 4/30/15 RESEARCH |   |
| CO-PI           | LITERMAN, ROBERT  | ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS |
| <b>\$18,000</b> | PURDUE UNIVERSITY   | 4003321                                     |
| <b>120680</b>   | DISEASE STUDY GROUP: FOCUS ON NEW AND EMERGING SOYBEAN DISEASES<br>3/1/13 to 2/28/14 RESEARCH   |   |
|                 | MUELLER, DAREN  | PLANT PATHOLOGY-AES/CALS                    |
| <b>\$17,000</b> | DOW AGROSCIENCES LLC  | 4003371                                     |
| <b>122789</b>   | UREA-INHIBITOR TREATED FIELD TRIAL<br>3/15/13 to 3/15/14 RESEARCH   |   |
| CO-PI           | SAWYER, JOHN<br>BARKER, DANIEL  | AGRONOMY-AES/CALS<br>AGRONOMY-EXT           |
| <b>\$15,996</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4206185                                     |
| <b>122169</b>   | CAREER: ON MUTUALISM OF MODULARITY AND CONCURRENCY GOALS<br>7/1/09 to 6/30/14 RESEARCH  |   |
|                 | RAJAN, HRIDESH  | COMPUTER SCIENCE-LAS                        |
| <b>\$14,916</b> | MONSANTO COMPANY  | 4004381                                     |
| <b>122376</b>   | PROTOCOL NUMBERS 2013-01-53-04 AND 2013-01-53-05<br>4/1/13 to 3/31/14 RESEARCH  |   |
|                 | MUNKVOLD, GARY  | PLANT PATHOLOGY-AES/CALS                    |
| <b>\$12,000</b> | IOWA DEPARTMENT OF NATURAL RESOURCES  | 4733007                                     |
| <b>122446</b>   | FORESTRY REFERENCE HANDBOOK<br>4/22/13 to 9/1/13 EXTENSION/PUBLIC   |   |
|                 | RANDALL, JESSE  | NATURAL RESOURCE ECOLOGY & MANAGEMENT-EXT   |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |   |         |
|-----------------|---|---------|
| <b>\$12,000</b> | BASF CORPORATION  | 4003323 |
| <b>122508</b>   | BAS 500 F, BAS 550 F / CORN / PYTHIUM / SE IOWA   |         |
|                 | 4/11/13 to 12/31/13 RESEARCH  |         |
|                 | ROBERTSON, ALISON PLANT PATHOLOGY-EXT   |         |
| <b>\$11,695</b> | NORTH CAROLINA STATE UNIVERSITY   | 4104082 |
| <b>116927</b>   | QUANTIFYING THE MULTIPLIER EFFECTS: WHAT SUSTAINABLE LOCAL FOOD SYSTEMS CAN MEAN TO LOCAL COMMUNITIES |         |
|                 | 6/15/12 to 6/14/15 RESEARCH   |         |
|                 | SWENSON, DAVID ECONOMICS-AES/CALS   |         |
| <b>\$11,500</b> | ASSOCIATION OF PUBLIC AND LAND-GRANT UNIVERSITIES   | 4002184 |
| <b>122487</b>   | COURSE DEVELOPMENT AND SCALING PLANNING PROJECT   |         |
|                 | 3/1/13 to 7/31/13 INSTRUCTION/TRAINING  |         |
|                 | KLIEMANN, WOLFGANG MATHEMATICS-LAS  |         |
| <b>\$11,453</b> | BRUCEMORE INC   | 4002911 |
| <b>122149</b>   | PRESERVATION PLAN AND HLR UPDATE FOR BRUCEMORE  |         |
|                 | 5/1/13 to 5/1/14 RESEARCH   |         |
|                 | HOHMANN, HEIDI LANDSCAPE ARCHITECTURE-DSN   |         |
| <b>\$10,949</b> | GRAYSON-JOCKEY CLUB RESEARCH FOUNDATION INC   | 4006320 |
| <b>120216</b>   | MOTOR EVOKED RESPONSES IN EQUINE CERVICAL MYELOPATHY  |         |
|                 | 3/1/13 to 3/1/14 RESEARCH   |         |
|                 | ALCOTT, CODY VETERINARY CLINICAL SCIENCES-VET   |         |
| CO-PI           | JEFFERY, NICHOLAS VETERINARY CLINICAL SCIENCES-VET  |         |
| CO-PI           | SPONSELLER, BRETT VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET                                   |         |
| CO-PI           | WONG, DAVID VETERINARY CLINICAL SCIENCES-VET  |         |
| <b>\$10,000</b> | UNIVERSITY OF TEXAS ARLINGTON   | 4044052 |
| <b>107998</b>   | NETWORK SIMULATIONS OF FRACTURE-MATRIX INTERACTIONS IN GAS RECOVERY                                   |         |
|                 | 1/1/11 to 10/26/13 RESEARCH   |         |
|                 | EWING, ROBERT AGRONOMY-AES/CALS   |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                 |  |         |
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| <b>\$10,000</b> | IOWA PUREBRED SWINE COUNCIL                                    | 4004331 |
| <b>122625</b>   | GRADUATE STUDENT SUPPORT                                       |         |
|                 | 5/1/13 to 12/31/13 SCHOLARSHIP                                 |         |
|                 | BAAS, THOMAS ANIMAL SCIENCE-AES/CALS                           |         |
| <b>\$9,685</b>  | CORPORATION FOR PUBLIC BROADCASTING                            | 4001207 |
| <b>120748</b>   | FY 2013 COMMUNITY SERVICE GRANT                                |         |
|                 | 10/1/12 to 6/30/14 MISCELLANEOUS                               |         |
|                 | CAIN, PAM VICE PRESIDENT FOR BUSINESS & FINANCE-VPBF           |         |
| <b>\$8,575</b>  | CENTERVILLE COMMUNITY SCHOOL DISTRICT                          | 4003023 |
| <b>121018</b>   | LOCAL SUPPORT FOR THE IOWA AMERICORPS STATE OF PROMISE PROGRAM |         |
|                 | 9/1/12 to 8/31/13 EXTENSION/PUBLIC                             |         |
|                 | TALLMAN, KELI EXTENSION 4-H YOUTH DEVELOPMENT-EXT              |         |
|                 | CO-PI MCCARTHY, JUDY EXTENSION 4-H YOUTH DEVELOPMENT-EXT       |         |
| <b>\$8,000</b>  | SCOUT MATERIALS LLC  | 4004385 |
| <b>122698</b>   | EVALUATION OF SCOUT NATURAL FERTILIZER                         |         |
|                 | 5/25/13 to 12/31/13 RESEARCH                                   |         |
|                 | CHRISTIANS, NICK HORTICULTURE-AES/CALS                         |         |
| <b>\$7,350</b>  | IOWA DEPARTMENT OF HUMAN RIGHTS                                | 4003023 |
| <b>120975</b>   | LOCAL SUPPORT FOR THE IOWA AMERICORPS STATE OF PROMISE PROGRAM |         |
|                 | 9/1/12 to 8/31/13 EXTENSION/PUBLIC                             |         |
|                 | TALLMAN, KELI EXTENSION 4-H YOUTH DEVELOPMENT-EXT              |         |
|                 | CO-PI MCCARTHY, JUDY EXTENSION 4-H YOUTH DEVELOPMENT-EXT       |         |
| <b>\$6,900</b>  | MONSANTO COMPANY   | 4004399 |
| <b>122317</b>   | SEED TREATMENT NEMATODE MANAGEMENT IN SOYBEAN                  |         |
|                 | 4/1/13 to 11/1/13 RESEARCH                                     |         |
|                 | TYLKA, GREGORY PLANT PATHOLOGY-AES/CALS                        |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                |  |         |
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| <b>\$5,750</b> | MONSANTO COMPANY   | 4003096 |
| <b>122670</b>  | FIELD TRIAL PROTOCOL 2013-01-09-08   |         |
|                | 4/30/13 to 4/29/14 RESEARCH  |         |
|                | OWEN, MICHEAL AGRONOMY-AES/CALS  |         |
| <b>\$5,461</b> | UNIVERSITY OF CALIFORNIA-LAWRENCE BERKELEY NATIONAL LABORATORY   | 4042532 |
| <b>122231</b>  | SYNTHESIS OF STANNYLATED ROSAMINES   |         |
|                | 1/1/11 to 6/30/13 RESEARCH   |         |
|                | KRAUS, GEORGE CHEMISTRY-LAS  |         |
| <b>\$5,000</b> | IOWA WATER ENVIRONMENT ASSOCIATION   | 4004380 |
| <b>121523</b>  | ENVIRONMENTAL FATE OF ENDOCRINE-DISRUPTING CHEMICALS: ASSOCIATION WITH BIOSOLIDS-DERIVED DISSOLVED ORGANIC MATTER      |         |
|                | 5/1/13 to 4/30/14 RESEARCH   |         |
|                | THOMPSON, MICHAEL AGRONOMY-AES/CALS  |         |
| <b>\$5,000</b> | UNIVERSITY OF MINNESOTA TWIN CITIES  | 4004392 |
| <b>122765</b>  | MILK PROTEIN CONCENTRATES IN HIGH-PROTEIN NUTRITION BARS: HARDENING MECHANISMS, AND PROTEIN MODIFICATIONS TO REDUCE IT |         |
|                | 5/16/13 to 8/14/13 RESEARCH  |         |
|                | LAMSAL, BUDDHI FOOD SCIENCE & HUMAN NUTRITION-AES/CALS   |         |
| <b>\$4,907</b> | USDA-AGRICULTURAL RESEARCH SERVICES (ARS)  | 4194002 |
| <b>121999</b>  | PLANT EXPLORATION IN THE UNITED STATES TO COLLECT SUNFLOWER GERMPASM FOR CROP IMPROVEMENT                              |         |
|                | 9/7/12 to 9/6/14 RESEARCH  |         |
|                | MAREK, LAURA AGRONOMY-AES/CALS   |         |
| <b>\$4,306</b> | DOD-IOWA ARMY NATIONAL GUARD   | 4784015 |
| <b>122490</b>  | FEDERAL MIGRATORY BIRD HABITAT ASSESSMENT  |         |
|                | 4/15/13 to 12/31/13 RESEARCH   |         |
|                | MCMULLEN, CATHERINE NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS   |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

|                |   |         |
|----------------|---|---------|
| <b>\$3,308</b> | NORTH AMERICA BRAMBLE GROWERS RESEARCH FOUNDATION   | 4004283 |
| <b>117472</b>  | THE EFFECTS OF TEMPERATURE AND LIGHT IN HIGH TUNNEL PRIMOCANE RED RASPBERRY PRODUCTION  |         |
|                | 1/1/13 to 12/31/13 RESEARCH   |         |
|                | NONNECKE, GAIL HORTICULTURE-AES/CALS  |         |
| <b>\$2,450</b> | EVERYBODY WINS!-IOWA  | 4003023 |
| <b>121019</b>  | LOCAL SUPPORT FOR THE IOWA AMERICORPS STATE OF PROMISE PROGRAM  |         |
|                | 9/1/12 to 8/31/13 EXTENSION/PUBLIC  |         |
|                | TALLMAN, KELI EXTENSION 4-H YOUTH DEVELOPMENT-EXT   |         |
|                | CO-PI MCCARTHY, JUDY EXTENSION 4-H YOUTH DEVELOPMENT-EXT  |         |
| <b>\$2,450</b> | COMMUNITY FOUNDATION OF GREAT RIVER BEND  | 4003023 |
| <b>121020</b>  | LOCAL SUPPORT FOR THE IOWA AMERICORPS STATE OF PROMISE PROGRAM  |         |
|                | 9/1/12 to 8/31/13 EXTENSION/PUBLIC  |         |
|                | TALLMAN, KELI EXTENSION 4-H YOUTH DEVELOPMENT-EXT   |         |
|                | CO-PI MCCARTHY, JUDY EXTENSION 4-H YOUTH DEVELOPMENT-EXT  |         |
| <b>\$2,142</b> | IOWA DEPARTMENT OF NATURAL RESOURCES  | 4734240 |
| <b>121115</b>  | SEASONAL SUCCESSION IN FLORAL RESOURCES AND RESPONSE OF INSECT POLLINATOR GROUPS IN THREE GRASSLAND TYPES IMPORTANT FOR POLLINATOR CONSERVATION IN IOWA |         |
|                | 4/15/13 to 4/15/14 RESEARCH   |         |
|                | DEBINSKI, DIANE ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS  |         |
|                | CO-PI DELANEY, JOHN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS  |         |
| <b>\$1,600</b> | USDA-AGRICULTURAL RESEARCH SERVICES (ARS)   | 4194076 |
| <b>120929</b>  | RESEARCH SUPPORT AGREEMENT  |         |
|                | 10/1/12 to 9/30/13 EXTENSION/PUBLIC   |         |
|                | BEITZ, DONALD ANIMAL SCIENCE-AES/CALS   |         |
| <b>\$1,350</b> | NSF-NATIONAL SCIENCE FOUNDATION   | 4204105 |
| <b>122404</b>  | PLANNING GRANT: I/UCRC FOR ARTHROPOD MANAGEMENT TECHNOLOGIES  |         |
|                | 9/1/12 to 8/31/13 MISCELLANEOUS   |         |
|                | BONNING, BRYONY ENTOMOLOGY-AES/CALS   |         |

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

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**\$644** MUSCATINE COUNTY AGRICULTURAL EXTENSION DISTRICT

4003319

**114520** EXPANDING 4-H YOUTH DEVELOPMENT IN MUSCATINE COUNTY

7/1/11 to 6/30/13 EXTENSION/PUBLIC

JOHANSEN, LUANN

EXTENSION 4-H YOUTH DEVELOPMENT-EXT

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