

**Cornell University, Office of Sponsored Programs**  
**Awards Received in January 2019**

| <b>Principal Investigator</b> | <b>Department</b>                        | <b>Sponsor</b>           | <b>Project Title</b>  | <b>OSP#</b> | <b>Amount</b> |
|-------------------------------|--|--------------------------|---|-------------|---------------|
| ABBOTT, NICHOLAS              | Chemical & Biomolecular Engineering      | DOD (ARMY-ARO)           | NEW PRINCIPLES FOR TARGETING AND TRIGGERING BASED ON MOLECULAR SELF-ASSEMBLY IN TOPOLOGICAL DEFECTS OF LIQUID CRYSTALS                        | 88469       | \$455,709     |
| AGUILAR-CARRENO, HECTOR       | Microbiology and Immunology              | MONTANA ST U             | CHARACTERIZATION OF NOVEL HENIPAVIRAL GLYCOPROTEIN SEQUENCE FUNCTIONS OPTION 1  | 86434       | \$294,000     |
| ANDO, NOZOMI                  | Chemistry and Chemical Biology           | DHHS (NIH)               | PROTEIN ALLOSTERY AND CATALYSIS BEYOND BRAGG DIFFRACTION  | 87370       | \$314,429     |
| ANTAKI, JAMES FRANCIS         | Biomedical Engineering                   | DHHS (NIH-NIH NHLBI)     | CORA_TM_A PERSONALIZED CARDIAC COUNSELOR FOR OPTIMAL THERAPY  | 84545       | \$433,228     |
| BANEUX, PHILIPPE              | Biomedical Sciences                      | ASLAP                    | 2019 CORNELL CENTER FOR ANIMAL RESOURCES AND EDUCATION (CARE) ASLAP FOUNDATION SUMMER FELLOWSHIP  | 88280       | \$5,000       |
| BAPTIST, EDWARD E             | Cornell Inst for Social & Econ Research  | UNO                      | FREEDOM ON THE MOVE   | 84109       | \$160,197     |
| BARBASH, DANIEL A             | CALS Molecular Biology & Genetics        | DHHS (NIH)               | MOLECULAR AND EVOLUTIONARY GENETICS OF MEIOTIC DRIVE  | 86365       | \$1,283,337   |
| BARRETT, CHRISTOPHER          | CALS AEM                                 | IFPRI                    | IFPRI/PIM LINKAGE FUNDING   | 79382       | \$60,000      |
| BERGSTROM, GARY C             | CALS School of Integrative Plant Science | NYS (AGMRKT)             | ASSISTANCE WITH DEREGULATION AND ENHANCED REGULATORY ACTIVITIES OF GOLDEN NEMATODE IN NEW YORK (2018-2019)                                    | 86900       | \$71,000      |
| BONASSAR, LAWRENCE            | Biomedical Engineering                   | AERIN MED                | COMBINED CHEMICAL AND RADIO FREQUENCY TREATMENT FOR RESHAPING OF THE NASAL SEPTUM   | 78859       | \$91,741      |
| BONASSAR, LAWRENCE            | Biomedical Engineering                   | FIDIA FARMACEUTICI       | MECHANICAL EVALUATION AND 3D BIOPRINTING OF NEOCART ENGINEERED CARTILAGE  | 88884       | \$156,571     |
| BUCHON, NICOLAS S             | CALS Entomology                          | NYS (AGMRKT)             | 2017-18 BIOLOGICAL CONTROL OF THE SPOTTED WIND DROSOPHILA   | 84456       | \$36,343      |
| BUCKLER, EDWARD S             | Institute Biotechnology & Life Science   | U OF ILLINOIS (UIUC)     | TERRA-MEPP (MOBILE ENERGY-CROP PHENOTYPING PLATFORM) (PROPOSAL NO. 1211-1529  | 76164       | \$237,059     |
| BUNTING-HOWARTH, KATHERINE E  | CALS Sea Grant                           | U OF MS                  | SEA GRANT LEGAL CAPACITY BUILDING GRANT   | 88527       | \$10,000      |
| BUTCHER, JONATHAN T           | Biomedical Engineering                   | NSF (CMMI)               | BLOOD FLOW REGULATION OF PHARYNGEAL ARCH ARTERY MORPHOGENESIS   | 79136       | \$35,093      |
| BUTCHER, JONATHAN T           | Biomedical Engineering                   | WCM                      | CARDIOVASCULAR MAGNETIC RESONANCE WALL STRESS CHARACTERIZATION FOR PREDICTION OF ADVERSE AORTIC REMODELING FOLLOWING SURGICAL ANEURYSM REPAIR | 83312       | \$3,000       |
| COHEN, PAULA E                | Biomedical Sciences                      | DHHS (NIH)               | SLX4 AS A MEDIATOR OF CROSSOVER PATHWAY DECISIONS IN MAMMALIAN MEIOSIS  | 86708       | \$1,942,585   |
| COOK, LAWANDA H               | Industrial & Labor Relations Ext Orgs    | MLW                      | SHOULD I STAY OR SHOULD I GO?: KEEPING OLDER WORKERS ENGAGED  | 87773       | \$100,000     |
| DADI, MUHAMMAD IFTIKHAR       | Africana Studies and Research Center     | GETTY FDN                | MODERN ART HISTORIES IN AND ACROSS AFRICA, SOUTH AND SOUTHEAST ASIA   | 88602       | \$238,000     |
| DANDO, ROBIN                  | CALS Food Science                        | DAIRY FARMERS OF AMERICA | SHARP CHEDDAR CHEESE QUANTITATIVE CONSUMER RESEARCH: NON-STANDARD PTA   | 89045       | \$8,663       |
| DAVIS, BRIAN R.               | CALS Landscape Architecture              | U OF PENN                | HEALTHY PORT FUTURES  | 88771       | \$433,161     |
| DELISA, MATTHEW               | Chemical & Biomolecular Engineering      | JOHNS HOPKINS UNIV       | TECHNOLOGIES TO PREDICT AND PROBE GLYCOSYL TRANSFER   | 83732       | \$698,386     |
| DEVOOGD, TIMOTHY J            | Psychology                               | PAF                      | NOVEL OPPORTUNITIES FOR MOVEMENT THAT BLEND SOCIAL AND SCIENTIFIC LEARNING  | 86207       | \$24,750      |

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|------------------------|--|----------------------|---|-------|-------------|
| DOERR, TOBI            | Weill Institute                          | DHHS (NIH-NIH NIAID) | CELL ENVELOPE STRESS RESPONSES AND THE MECHANISM OF ANTIBIOTIC TOLERANCE IN GRAM-NEGATIVE PATHOGENS                     | 87096 | \$1,961,445 |
| EARLS, CHRISTOPHER J   | Civil & Environmental Engineering        | DOD (NAVY-ONR)       | TOWARDS AN ACCURATE AND USEFUL ENGINEERING THEORY ON SLAMMING EMANATING FROM PARTITIONED CUBEN/OPENFOAM FSI SIMULATIONS | 85781 | \$423,299   |
| FISCHBACH, CLAUDIA     | Biomedical Engineering                   | NSF                  | GORDON RESEARCH CONFERENCE 'PHYSICAL SCIENCE OF CANCER'   | 88611 | \$10,030    |
| FLEMING, PAUL A.       | Society for the Humanities               | MELLON               | RURAL HUMANITIES  | 88317 | \$1,000,000 |
| FORTIER, LISA          | Clinical Sciences                        | IN2BONES             | HEMIPLUG ENHANCED OSTEOCHONDRAL REPAIR IN AN OVINE MODEL  | 89065 | \$186,094   |
| FRANK, MARGARET HANNAH | CALS School of Integrative Plant Science | DANFORTH PSC         | RE-ENGINEERING THE SOYBEAN FLOWER TO CAPTURE HYBRID VIGOR   | 87840 | \$81,555    |
| GLAHN, RAYMOND P       | CALS Food Science                        | NESTEC               | SERVICE AGREEMENT: SOFT TERM  | 88955 | \$46,500    |
| GORE, MICHAEL A        | CALS School of Integrative Plant Science | MICHIGAN ST U        | RESEARCH-PGR: A GENOME-LEVEL APPROACH TO BALANCING THE VITAMIN CONTENT OF MAIZE GRAIN                                   | 76820 | \$98,409    |
| GRANT, JENNIFER        | CALS NYS Integrated Pest Management      | NYS (AGMRKT)         | 2018 SPOTTED LANTERN FLY IPM OUTREACH AND MANAGEMENT (PO #TBD)  | 87633 | \$49,999    |
| GREEN, DENISE N        | Fiber Science and Apparel Design         | NEH                  | PRESERVATION ASSESSMENT OF THE CORNELL COSTUME & TEXTILE COLLECTION   | 86852 | \$6,000     |
| HARE, MATTHEW P.       | CALS Natural Resources                   | MAFMC                | SURF CLAM SPECIES DIAGNOSTICS AND POPULATION CONNECTIVITY ESTIMATES TO INFORM MANAGEMENT                                | 88585 | \$242,175   |
| HAYES, ALEXANDER G     | Center Astrophysics-Planetary Science    | NASA (JPL)           | EVOLUTION AND HABITABILITY OF OCEAN WORLDS IN THE SOLAR SYSTEM AND BEYOND   | 84005 | \$354,459   |
| HOWARTH, ROBERT W      | CALS Ecology & Evolutionary Biology      | Park                 | CONTINUATION OF THE METHANE PROJECT AT CORNELL UNIVERSITY: HOW SHALE GAS IS AGGRAVATING GLOBAL CHANGE                   | 88127 | \$130,000   |
| HU, FENGHUA            | Weill Institute                          | DHHS (NIH-NIH NINDS) | LYSOSOMAL FUNCTION OF PROGRANULIN AND NEURODEGENERATION   | 80540 | \$224,196   |
| JUST, DAVID R          | CALS AEM                                 | RUSSELL SAGE         | HOW DOES BEING IN A FOOD PANTRY CHANGE YOUR VALUE FOR FOOD? A WILLINGNESS TO PAY EXPERIMENT                             | 86904 | \$7,500     |
| JUSTICE, DEBORAH RUTH  | Music                                    | MID ATLANT ARTS      | JAZZ TOURING NETWORK: TRAVEL GRANT  | 89027 | \$500       |
| KLINCK, HOLGER         | CALS Lab of O - Programs                 | HDR (HDR EOC)        | PASSIVE ACOUSTIC MONITORING PROGRAM FOR THE NORTHERN GULF OF MEXICO (2019 AND 2020 MONITORING PROJECTS)                 | 87839 | \$404,966   |
| LEI, XINGEN            | CALS Animal Science                      | DUKE U               | MARINE ALGAE INDUSTRIALIZATION CONSORTIUM (MAGIC): COMBINING BIOFUEL AND HIGH-VALUE BIOPRODUCTS TO MEET THE RFS         | 75480 | \$237,003   |
| LIEPE, MATTHIAS U      | Cornell Lab Accelerator Sciences & Ed    | NIOWAVE              | DEVELOPMENT OF HIGH-Q SRF STRUCTURES BY NITROGEN DOPING FOR SUPERCONDUCTING ELECTRON LINACS: SBIR                       | 88128 | \$134,157   |
| LIU, JUN               | Molecular Biology and Genetics           | DHHS (NIH)           | MOLECULAR MECHANISMS REGULATING AND INTERPRETING BMP SIGNALING  | 85830 | \$2,600,710 |
| LUCKS, JULIUS          | Chemical & Biomolecular Engineering      | NORTHWESTERN U       | GOAL: ADVANCED BIOMANUFACTURING WITH INDUCIBLE FEEDBACK PROMOTERS   | 84703 | \$61,313    |
| LUNINE, JONATHAN       | Center Astrophysics-Planetary Science    | NASA (JPL)           | MISE CO-I SUBCONTRACT, EUROPA PROJECT   | 77491 | \$83,800    |
| MATTSON, NEIL S        | CALS School of Integrative Plant Science | U OF GEORGIA         | OPTIMIZING THE COST-EFFECTIVENESS OF LIGHTING IN CONTROLLED ENVIRONMENT AGRICULTURE                                     | 86362 | \$849,986   |
| MAZOUREK, MICHAEL      | CALS School of Integrative Plant Science | OREGON ST U          | NORTHERN ORGANIC VEGETABLE IMPROVEMENT COLLABORATIVE (NOVIC)3   | 86242 | \$385,982   |

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| MCFADDEN, JOSEPH W.        | CALS Animal Science                      | FFAR                            | ADDRESSING FUTURE GLOBAL DAIRY DEMAND: TARGETING THE GUT-LIVER AXIS TO PROMOTE HEAT STRESS RESILIENCE IN DAIRY CATTLE   | 87828 | \$736,392   |
| MCGRATH, MARGARETT         | CALS School of Integrative Plant Science | RUTGERS                         | MANAGING DOWNY MILDEW AND FUSARIUM IN BASIL WITH NEW RESISTANT VARIETIES, IMPROVED GENETICS, SEED TREATMENT, AND DISEASE OCCURRENCE MAPPING                             | 86416 | \$61,536    |
| MELLON, MICHAEL T          | Center Astrophysics-Planetary Science    | NASA (WASHINGTON HQ)            | THERMAL PROPERTIES OF PLANETARY REGOLITH  | 87268 | \$352,277   |
| MONTICONE, FRANCESCO       | Electrical & Computer Engineering        | DOD (AF-AFOSR)                  | ROBUST TOPOLOGICAL SCATTERING AND RADIATING STRUCTURES: BRIDGING FREE-SPACE PROPAGATION AND SURFACE WAVES ON COMPLEX OBJECTS  | 86941 | \$450,000   |
| OVERTON, THOMAS R          | CALS Cornell Cooperative Extension       | EXT FNDN (MO)                   | 2019 PESTICIDE SAFETY EDUCATION GRANT   | 88806 | \$20,325    |
| OVERTON, THOMAS R          | CALS Cornell Cooperative Extension       | NYS (NYS DEC)                   | 2018 PESTICIDE MANAGEMENT EDUCATION PROGRAM (PMEP)  | 87740 | \$1,450,000 |
| RANGARAJAN, ANUSUYA        | CALS School of Integrative Plant Science | VETERANS ADMIN (VA MEDICAL CTR) | THERAPEUTIC HORTICULTURE AS INTRODUCTION TO VETERAN ENGAGEMENT IN AGRICULTURE   | 87211 | \$230,467   |
| REED, PATRICK M            | Civil & Environmental Engineering        | UNC (UNC CHAPEL HILL)           | INFWEVS/T3: THE SUSTAINABILITY-PRODUCTIVITY TRADEOFF: WATER SUPPLY VULNERABILITIES AND ADAPTATION OPPORTUNITIES IN CALIFORNIA'S COUPLED AGRICULTURAL AND ENERGY SECTORS | 79294 | \$250,000   |
| RICHARDS, KRISTY           | Biomedical Sciences                      | WCM                             | THE BIOREPOSITORY CORE (CORE B)   | 83291 | \$14,477    |
| RIZVI, SYED S              | CALS Food Science                        | FFAR                            | VALUE-ADDED AND NUTRITIONALLY SUPERIOR EXTRUDED FOODS FROM AGRICULTURAL WASTE STREAMS   | 87876 | \$539,962   |
| RODEWALD, AMANDA D         | CALS Lab of O - Programs                 | MCF                             | CORNELL LAND TRUST BIRD CONSERVATION INITIATIVE   | 88900 | \$91,012    |
| RUIZ-GUTIERREZ, VIVIANA    | CALS Lab of O - Programs                 | NESTLE (NESPRESSO USA)          | SERVICE AGREEMENT   | 88705 | \$427,422   |
| RUIZ-GUTIERREZ, VIVIANA    | CALS Lab of O - Programs                 | PACKARD FDN                     | CORNELL LAB OF ORNITHOLOGY COASTAL SOLUTIONS FELLOWS (PHASE II)   | 87968 | \$999,809   |
| RYD, ANDERS                | Cornell Lab Accelerator Sciences & Ed    | PRINCETON U                     | U.S. CMS OPERATIONS AT THE LHC (SOFTWARE & COMPUTING SUBSYSTEMS)  | 78877 | \$34,000    |
| RYD, ANDERS                | Cornell Lab Accelerator Sciences & Ed    | DOE (FERMILAB)                  | CMS LPC 2019 DISTINGUISHED RESEARCH FELLOWSHIP - YANGYANG CHENG   | 87889 | \$47,736    |
| SCHMIT, TODD M             | CALS AEM                                 | FARM CREDIT EAST                | IMPROVING THE UNDERSTANDING OF EVOLVING AGRICULTURAL AND FOOD SYSTEMS IN A GLOBAL MARKETPLACE   | 88003 | \$2,500     |
| SEVIER, CAROLYN S          | Molecular Medicine                       | DHHS (NIH)                      | MOLECULAR MECHANISMS TO MAINTAIN ER REDOX BALANCE   | 86328 | \$1,293,756 |
| SHEEHAN, MICHAEL           | CALS Neurobiology & Behavior             | IOWA STATE U                    | IOS EDGE: FUNCTIONAL GENOMICS IN POLISTES WRAPS, A MODEL SYSTEM IN INTEGRATIVE ORGANISMAL BIOLOGY   | 86020 | \$230,792   |
| SHVETS, GENNADY            | Applied & Engineering Physics            | DOE                             | THEORY AND MODELING OF THE PHYSICS OF RELATIVISTIC SHOCKS AND FERMI ACCELERATION, AND OF THEIR IMPLEMENTATION UNDER LABORATORY CONDITIONS USING PETAWATT LASER SYSTEMS  | 85333 | \$480,000   |
| SHVETS, GENNADY            | Applied & Engineering Physics            | U OF TEXAS SYS (UT AUSTIN)      | LASER PLASMA ACCELERATION PHYSICS   | 86771 | \$60,875    |
| SMITH EINARSON, MARGARET E | CALS International Programs              | WACCI                           | WACCI LIBRARY AND SCIENTIFIC WRITING TRAINING   | 89039 | \$24,890    |
| SMOLKA, MARCUS B           | Weill Institute                          | WCM                             | EXPLORING THE KINOME FOR DNA REPAIR AND CANCER REGULATORY PATHWAYS  | 87218 | \$100,000   |
| SNAVELY, KEITH N           | Central Student Services                 | VSI                             | STTR TOPIC DTRA18B-001  | 87273 | \$344,886   |
| SONG, JEONGMIN             | Microbiology and Immunology              | DHHS (NIH)                      | PHASE I PROPOSAL #T18B-001-0002: STTR SALMONELLA TYPHI: ENHANCEMENT OF ENDEMIC POTENTIAL THROUGH ITS UNIQUE VIRULENCE FACTORS   | 87799 | \$2,906,925 |

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| SORRELLS, MARK E           | CALS School of Integrative Plant Science | N DAKOTA ST U       | IDENTIFYING SPRING MALTING BARLEY VARIETIES FOR THE CRAFT BREWING INDUSTRIES  | 86994 | \$9,812     |
| SORRELLS, MARK E           | CALS School of Integrative Plant Science | U OF CAL (UC DAVIS) | COORDINATED AGRICULTURAL PROJECT (WHEATCAP): VALIDATION, CHARACTERIZATION AND DEPLOYMENT OF QTL FOR GRAIN YIELD COMPONENTS IN WHEAT             | 79571 | \$88,889    |
| SULLIVAN, ROBERT J         | Center Astrophysics-Planetary Science    | NASA (JPL)          | PHYSICAL AND MECHANICAL PROPERTIES OF MARTIAN SOILS ALONG MARS EXPLORATION ROVER TRAVERSES  | 77646 | \$20,000    |
| WATUGALA, SUMUDU W         | CALS AEM                                 | TREASURY            | TRADING BEHAVIOR AND SHOCK PROPAGATION IN FINANCIAL MARKETS   | 78796 | \$48,048    |
| WIEDMANN, MARTIN           | CALS Food Science                        | SILLIKER            | PRODUCT TESTING AGREEMENT: SOFT TERM  | 88604 | \$137,000   |
| WIEDMANN, MARTIN           | CALS Food Science                        | WF                  | FOOD SECURITY STRATEGIES FOR AN EMERGING E-COMMERCE ECONOMY: MODELLING APPROACHES TO PREDICT SHELF-LIFE, FOOD QUALITY, AND FOOD SAFETY IN CHINA | 88000 | \$2,452,643 |
| WIEDMANN, MARTIN           | CALS Food Science                        | FFAR                | REDUCING FOOD WASTE BY RE-SHAPING CONSUMER BEHAVIOR USING DATA-INFORMED, DYNAMIC ECONOMIC INCENTIVES  | 87864 | \$590,000   |
| WIEDMANN, MARTIN           | CALS Food Science                        | HEALTH RESEARCH     | ELC FOODBORNE ILLNESS CENTERS OF EXCELLENCE   | 77671 | \$73,209    |
| WIESNER, ULRICH B          | Materials Science Engineering            | SLOAN KETTERING     | INTRODUCE OF AN ANTI-CANCER DRUG TO THE C-DOT FORMULATIONS  | 88877 | \$74,386    |
| WILDEMAN, CHRISTOPHER J    | Bronfenbrenner Ctr forTranslational Rsch | CASEY               | PRELIMINARY ANALYSIS OF CASEWORKERS IN NCANDS & AFCARS  | 89129 | \$49,450    |
| WOLFE, DAVID WALTER        | CALS School of Integrative Plant Science | NYS (AGMRKT)        | SOIL HEALTH INITIATIVE (2018 - 2019)  | 87174 | \$200,000   |
| WOOD, CHRISTOPHER LEIGHTON | CALS Lab of O - Programs                 | BIRDS NEW ZEALAND   | BREEDING BIRD ATLAS NEW ZEALAND AGREEMENT   | 88788 | \$90,000    |
| XING, H GRACE              | Electrical & Computer Engineering        | DOE (ARPA-E)        | POLARJEET; A NOVEL VERTICAL GAN POWER TRANSISTOR CONCEPT  | 77461 | \$4,297     |
| YU, HAIYUAN                | Weill Institute                          | SF                  | INTERACTOME PERTURBATION SPLITS RISK FROM BENIGN DE NOVO MISSENSE MUTATIONS   | 86130 | \$549,000   |