



Division of Research and Sponsored Programs 2015-2016 Annual Report



DIVISION OF RESEARCH AND SPONSORED PROGRAMS



Charlotte P. Morris, Ph.D.
Interim President

MESSAGE FROM THE DIVISION OF RESEARCH AND SPONSORED PROGRAMS

Tuskegee University recognizes the importance of external support of research and sponsored programs and the impact these vital programs have on the development of its students, faculty and society in general. Tuskegee University has a long standing reputation of being among the nation's premiere minority research institutions committed to the total development of its students and faculty. In this annual report it is evident that through our centers of excellence, academic colleges and other institutional units, our faculty, staff and students are engaged in research that is critical to address the needs of today's citizens, industries and governments.



Tejinder Sara, Ph.D.
Provost/Vice President
for Academic Affairs

Since 1996, the Division of Research and Sponsored Programs has more than doubled its annual funding for research and other sponsored programs. The university concluded 2015-2016 with a total annual funding of **\$41.3 million**, which represents a significant increase over the last year. Credit for this enormous success goes to faculty members and staff, who continue to search for resources and write winning proposals. The staff members in the Division of Research and Sponsored Programs and various departments of Business and Fiscal Affairs are also to be commended for their enthusiastic support of the researchers in the grantsmanship process. These grants and contracts not only allow us to fulfill the research mission of Tuskegee University but also make a huge impact on our academic programs. Tuskegee University's two Ph.D. programs in Materials Science and Engineering and Integrative Biosciences are prime examples of programs that are offered solely based on the expertise and resources developed by the faculty members.



Shaik Jeelani, Ph.D., P.E.,
Vice President for Research &
Dean of Graduate Studies

Our long-term plan focuses on actively expanding Tuskegee University's research in the areas of nanobiotechnology, information technology, environmental science and engineering, energy, astronomy, sensors and devices, molecular biology, immunology, public health, toxicology, epidemiology, reproductive and environmental biology, and modeling and simulations.

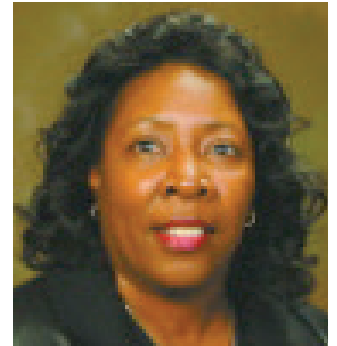
This report highlights only a few major grants received during the year 2015-2016, while all grants and contracts received are shown towards the end.



Felecia Moss-Grant
Associate Director of Compliance



Wanda Hairston
Director of Grants and Contracts

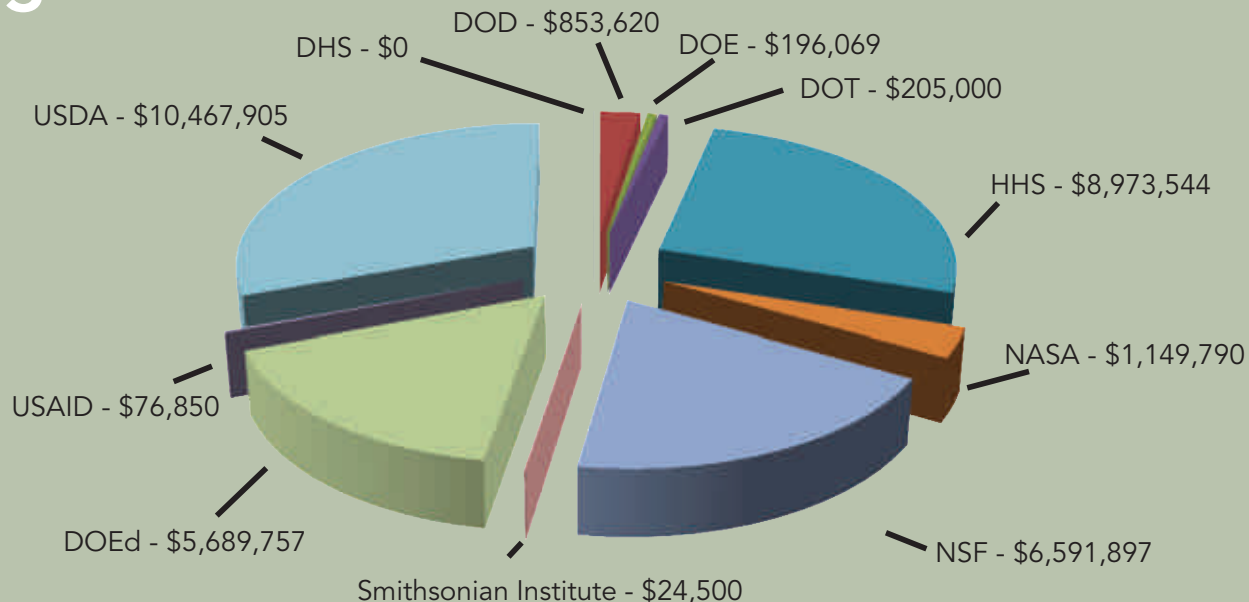


Danette Hall
Director of Sponsored Programs

ACADEMIC AREAS/CENTERS/ OTHER MAJOR UNITS

Federal Funding Fiscal Year 2015-2016

- U.S. Department of Homeland Security (DHS)
- U.S. Department of Defense (DOD)
- U.S. Department of Energy (DOE)
- U.S. Department of Transportation (DOT)
- U.S. Department of Health and Human Services (DHHS)
- National Aeronautics and Space Administration (NASA)
- National Science Foundation (NSF)
- Smithsonian Institute
- U.S. Department of Education (DOEd)
- U.S. Agency for International Development (USAID)
- U.S. Department of Agriculture (USDA)



AWARDS REWARDED BY UNITS

JULY, 1, 2015 – JUNE 30, 2016

| | # of Awards | Federal | Federal Pass-thru | Non-Federal (Industry, Private, Foundation, etc.) | State | \$ Amount |
|---|-------------|------------------------|-----------------------|---|-----------------------|------------------------|
| College of Agriculture, Environmental and Nutrition Science | 63 | \$9,205,512.00 | \$577,865.00 | \$277,306.00 | \$4,368,012.00 | \$14,428,695.00 |
| College of Arts and Sciences | 30 | \$3,476,385.00 | \$527,018.00 | \$250,000.00 | \$0.00 | \$4,253,403.00 |
| College of Business and Information Science | 7 | \$1,192,593.00 | \$12,000.00 | \$135,000.00 | \$202,975.00 | \$1,542,568.00 |
| College of Engineering | 59 | \$4,822,157.00 | \$2,113,370.00 | \$507,885.00 | \$0.00 | \$7,443,412.00 |
| College of Veterinary Medicine, Nursing and Allied Health | 26 | \$8,242,045.00 | \$0.00 | \$35,970.00 | \$0.00 | \$8,278,015.00 |
| School of Architecture | 1 | \$0.00 | \$0.00 | \$0.00 | \$8,150.00 | \$8,150.00 |
| School of Education | 1 | \$0.00 | \$0.00 | \$0.00 | \$7,500.00 | \$7,500.00 |
| National Center for Bioethics in Research and Health Care | 7 | \$501,200.00 | \$9,713.00 | \$752,000.00 | \$0.00 | \$1,262,913.00 |
| President's Office | 2 | \$3,141,160.00 | \$0.00 | \$0.00 | \$0.00 | \$3,141,160.00 |
| Development Office | 1 | \$0.00 | \$0.00 | \$500,000.00 | \$0.00 | \$500,000.00 |
| Provost (Library) | 3 | \$24,500.00 | \$0.00 | \$40,000.00 | \$0.00 | \$64,500.00 |
| Student Affairs | 1 | \$395,414.00 | \$0.00 | \$0.00 | \$0.00 | \$395,414.00 |
| Total | 200 | \$31,000,966.00 | \$3,239,966.00 | \$2,498,161.00 | \$4,586,637.00 | \$41,325,730.00 |

PRINCIPAL INVESTIGATOR: Mahesh Hosur

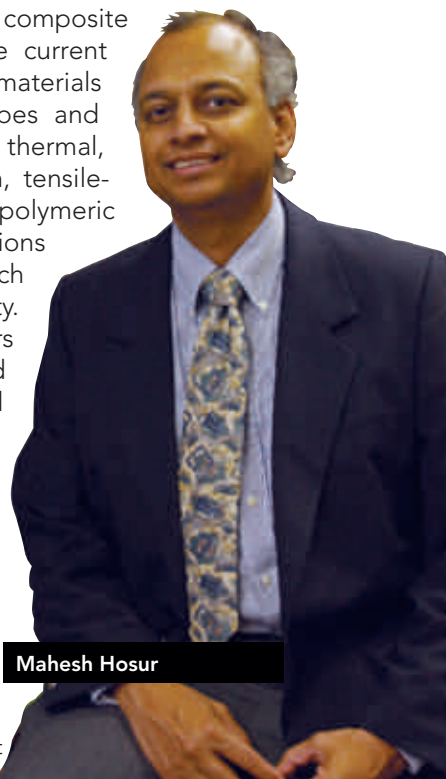
Professor/Head Material Science And Engineering

Enhancing Alabama's Research Capacity in Nano/Bio Science and Sensors**(Grant # 1158862: PI Mahesh Hosur (TU), 9/2011-8/2017, \$11.33 M)**

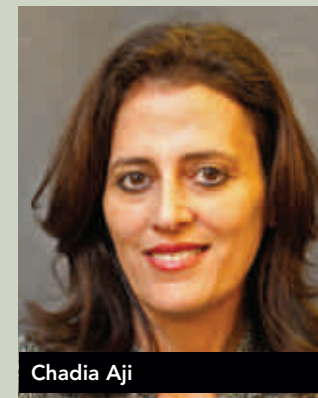
Statewide research, education and outreach activities were conducted at seven doctoral granting institutions led by Tuskegee University through four thrusts: Nano and Biomaterials, Biotechnology, Optics and Sensors, and Nanofabrication. The Nano and Biomaterials Research Thrust centered on development of new nanostructured materials, synthesis and characterization of nanomaterials for drug delivery applications and advanced green composites. The Biotechnology Research Thrust focused on developing and using organismal models to identify mechanisms of adaptation to natural and man-made environmental challenges. The Optics and Sensors Research Thrust was involved in research into a wide range of new spectroscopy-based tools for analysis of organic and inorganic materials. The Nanofabrication Research Thrust applied cutting-edge nanoengineering to develop molecular sensors, regimented nanomaterials and nanostructures. Each thrust area established activities with focus on education, diversity, outreach/partnering and workforce development efforts. In addition, EPSCoR research activities resulted in 16 patents and five startup companies.

Binary Nanoparticles Filled Fiber Reinforced Composites for Enhanced Damage Tolerance and Fatigue Life Subjected to Marine Environments**(Grant # W911NF-15-1-0451: PI Mahesh Hosur (TU), 9/2015-8/2018, \$594,000)**

In this project, we are developing novel hybrid bulk nanostructured composite materials that will be stronger, lighter and more durable than the current generation materials. We are developing novel hybrid nano structured materials using binary (combination of nanoclay/multi-walled carbon nanotubes and nanoclay/graphene nanoplatelets) nanoparticles and determining their thermal, viscoelastic, tensile, flexural, static and high strain rate compression, tensile-fatigue, low and high velocity impact properties. Thermoset polymeric epoxy matrix are modified with binary nanoparticles utilizing combinations of sonication, magnetic stirring and three-roll calendaring processes which have been optimized through ongoing research at Tuskegee University. Mechanical, thermal and viscoelastic properties of the modified polymers are determined and the most optimal nanoparticle loadings are utilized for fabricating laminated composites. Rheological studies are carried out to determine the viscosity variation, information of which will help during fabrication of laminated composites. For the fabrication of laminated composites with matrix modified with nanoparticles, we are using carbon and glass fibers individually and hybrid of both utilizing combinations of hand layup and compression mold processes. Fabricated composite specimens are being subjected to saline water, cold (subzero: dry, wet) and room temperature conditioning for different timeframes (30, 60, 120 and 240 days).

**Mahesh Hosur****PRINCIPAL INVESTIGATOR: Chadia Aji**

Associate Professor, Mathematics

Co-PI: Mohammed Khan**Funding Agency:** National Science Foundation (NSF)**Title:** Fly High your Math and Science Skills**Chadia Aji**

The project, *Fly High Your Math and Science Skills*, aims to introduce math and science teachers to an exciting and innovative teaching approach that will have a significant impact on the performance of their students. The project team consisting of faculty from mathematics, aerospace engineering, mathematics education and an instructional designer (consultant), will develop learning modules for 7th and 8th grade students using a flight simulation environment.

The teachers will have an annual one-week summer professional development at Tuskegee University to be trained on how to implement the modules in their classrooms. Additionally, the project team will conduct annual one-week long summer camps for 7th and 8th grade students at Tuskegee University.

This approach using a flight simulator will enhance learning, excite interest, and motivate students in STEM fields.

PRINCIPAL INVESTIGATOR: Robert Zabawa - Research Professor, Agriculture Sciences

Co-PRINCIPAL INVESTIGATORS: Conner Bailey, Auburn University , Ntam Baharanyi, Tuskegee University, Becky Barlow, Auburn University Community – Based Organization

Collaborators: Savi Horne, Land Loss Prevention Project, Durham, NC, Craig Baab, Alabama Appleseed, Montgomery, AL Research Professor, Agricultural

Funding Agency: United States Department Agricultural (USDA)/National Institute of Food and Agricultural (NIFA)

Tuskegee University Beginning Farmers and Ranchers Development Program Securing The Land For Agricultural And Community Development: Addressing Heir Property As An Asset Building Strategy



Robert Zabawa

Heir property causes land loss among African American farmers, ranchers, and forestland owners and constrains wealth creation within African American communities of the South. Heir property refers to land and improvements on land owned collectively by heirs of an owner who has died without a probated will; traditionally, African American landowners have been reluctant to write wills. Heir property has limited collateral value, and we estimate that there are tens of billions of dollars in asset value that cannot be used as collateral for business ventures or agricultural investments. Additionally, heir property owners are not eligible for important USDA programs to farmers and homeowners, representing another obstacle to African American wealth creation. The objectives of our integrated project (Research, Extension, Teaching) combine the faculty and graduate students at Tuskegee and Auburn

Universities with two leading non-profit organizations, Land Loss Prevention Project and Alabama Appleseed, which have made major contributions addressing heir property. This project will compare four African American New Deal Resettlement Communities established to provide farmland, and four neighboring communities, to examine the impact of heir property on asset building, cultural continuity, and community development. The project will identify strategies to address heir property that impede asset building, use research findings to develop Extension and outreach publications and programs to serve heir property owners and communities, and establish a course taught jointly at Tuskegee and Auburn Universities that focuses on heir property and land loss in the context of asset building and community development in Alabama and the South.

PRINCIPAL INVESTIGATOR: Byungjin Min, PhD Associate Professor, Department of Food and Nutritional Sciences

Funding Agency: United States Department of Agriculture/ National Institute of Food Agriculture

CO-PRINCIPAL INVESTIGATORS: Desmond Mortley, PhD (Tuskegee University), Young Kim, PhD (Virginia Tech), Gregory Cumberland (Bent Creek Institute)

Development of Sustainable Food Packaging Systems Derived from Renewable Biomass



Byungjin Min

Packaging is the third largest industry in the US, a large portion of which involves food. Over 20 billion pounds of petroleum-based plastics was used by the packaging industry in the US during 2012, thus **sustainable plastic packaging systems are a priority in the US and globally.** The goal of this project is to use a “melt compounding process”, to extract bio-polymeric

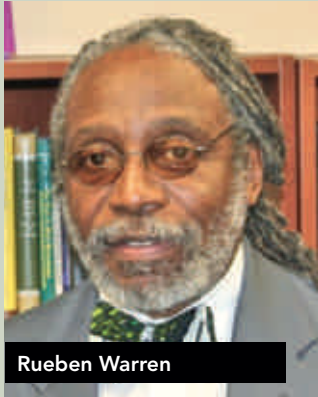
components from biomass residues of locally grown crops and use them to develop value-added food packaging systems equipped with advanced antimicrobial active food packaging technology. This will help to reduce the portion of waste packaging in landfills (now 45%) and that in **total municipal solid waste (now 17%), in the US.** The objectives are to extract potentially value-added bio-polymeric components such as cellulose and protein, use these components develop sustainable food packaging and determined their mechanical, barrier and thermal properties, infuse developed packaging materials with selected natural antimicrobials to improve product safety and quality, and train minority professionals and students in sustainable food packaging systems through a collaborative team effort.

PRINCIPAL INVESTIGATOR: Rueben Warren

Professor, Bioethics

Funding Agency: Lilly endowment

The Tuskegee University-Macon County Bridge Builders Programs



Rueben Warren

In November 2015, the National Center for Bioethics in Research and Health Care was awarded a \$600,000 grant from Lilly Endowment Inc. to empower high school youth in rural Macon County, Alabama to pursue theological leadership vocations. Fifty high school students from Macon County were competitively selected to participate in a series of planned activities over a 3-year period to engage, encourage, and empower them to complete high school, attend a college or university of their choice and to consider graduate theological education as a part of their career path. The goal of the program is to

provide a firm foundation from which the students can identify and address life opportunities and challenges. Starting in August 2016, 50 students began meeting one Saturday each month to discuss topics, such as youth violence prevention and college life and careers that were earlier identified by a select group of Macon County high school students. In addition, the students are paired with Tuskegee University students who tutor, advise and support them during the week. Selected subject matter experts are invited to the Saturday sessions to present on the topics that the students had previously identified. Each topic is discussed from a sacred and secular perspective. On the same weekend Sunday, the Bridge Builders students and their parents are invited to attend a local faith institution (church) to hear a sermon/teaching on the topic discussed that previous Saturday. The students also visit an HBCU campus in another state to better understand college life. In 2016, the students visited the Atlanta University Center (Clark/Atlanta University, Interdenominational Theological Center, Morehouse College, Morehouse School of Medicine, and Spelman College, and spoke with students, faculty and administrators at those institutions. The students will make similar visits to Nashville, Tennessee and Washington DC in 2017. Rigorous process and outcome evaluations are structured into the program to be sure the results are measurable and can be sustained in the future.

PRINCIPAL INVESTIGATOR: Hira Narang

Co-PRINCIPAL INVESTIGATORS: Mohammed Qazi, Fan Wu, Casandra Thomas, Jay Bhuyan

Funding Agency: National Science Foundation NSF

ITEST Strategies: The Tuskegee Partnership to Provide Technology Experiences through Aerial Drones in High School of the Alabama Black Belt



Hira Narang

This will be the second year the campus will host the program, which is spearheaded by the Computer Science Department. In 2016, the National Science Foundation awarded Tuskegee University a 1.2 million dollar federal grant to bring drone technology to the local area.

Tuskegee University will be hosting the 2017 STEM Drone Summer Academy from July 5th – 28th in the Andrew F. Brimmer Hall. The program is designed to offer local high school students an opportunity to learn science, technology, engineering and math (STEM) concepts through the use of aerial drones.

The program will engage 10th, 11th and 12th grade students from local area schools in aerial drone-based activities offered during an intensive Summer Academy that will last just over three weeks. At the academy, students will collaborate in a project-based learning environment to investigate STEM-related problems.

The three-year grant also encourages teachers from local area schools to participate in the academy. These teachers will design course modules based on their observation of academy activities and introduce them in their high school classrooms in an effort to teach STEM concepts.

PRINCIPAL INVESTIGATOR:

Shaik Jeelani

Vice President for Research & Dean of Graduate Studies

Co-PRINCIPAL INVESTIGATORS:

Mohammed Qazi, Mahesh Hosur

Funding Agency: National Science Foundation (NSF)

The NanoBio Science Partnership for the Alabama Black Belt Region, Math and Science Partnership (MSP) Program



Shaik Jeelani

The primary goal of the MSP grant is to enhance the science achievement of middle grade (6th, 7th and 8th) students in the Black Belt Region of Alabama. In this regard, the intervention Tuskegee has adopted is for the STEM faculty

involved in this grant to work with the teachers in developing course modules, training the teachers in delivering the modules to the students and presenting the modules to the students, jointly with the teachers. Under this MSP grant, Tuskegee is working with 26 STEM and education faculty, 90 middle grade science teachers, 10 district superintendents, 30 principals and 8,000 middle grade students in the Black Belt. Students learning outcomes and attitudes towards science have been favorably impacted by this project.

PRINCIPAL INVESTIGATOR:

Ruby L. Perry

Veterinary Medicine, Dean

Funding Agency: Department of Health and Human Services (HHS) /Health

Resources and Services Administration (HRSA) Centers of Excellence



Ruby L. Perry

The focus of this grant is to recruit, educate/train, and retain underrepresented populations in veterinary medical and public health education. The Center of Excellence (COE) Program expands the ability of the College to continue to educate culturally competent veterinarians and public health professionals who will contribute to the development of a culturally competent workforce.

The program will build upon its successful infrastructure of counselors, peer and faculty tutors, student and alumni mentors, research mentors, and teaching experts who have helped more than 2,000 African Americans graduate from Tuskegee University College of Veterinary Medicine since its founding in 1945. Building on past successes and in keeping with an extensive needs assessment, the COE Program will assist the College with fostering an environment that 1) eliminates barriers faced by underrepresented minorities interested in health careers 2) provides educational opportunities to a diverse student population through a comprehensive support system, and 3) employs a diverse population of faculty and researchers who serve as mentors.

PRINCIPAL INVESTIGATOR:

Roberta Troy

Biology Department Head

Co-PRINCIPAL INVESTIGATORS:

Clayton Yates

Funding Agency: Department of Health and Human Services/National Institutes of Health (HHS)/National Cancer Institute (NCI)

Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Planning and Evaluation Core



Roberta Troy

Tuskegee University continues its partnership with Morehouse School of Medicine (MSM) and the Comprehensive Cancer Center at the University of Alabama at Birmingham (UABCCC) in cancer research with an overall goal of attaining excellence in research focused on elimination of cancer health disparities and on reducing the cancer burden among underserved populations in the South-east.

Tuskegee University has the role of building a pipeline of racial/ethnic minorities in cancer research. The Tuskegee Cancer Team has oversight over four Cores components; 1) Administrative, 2) Outreach, 3) Research Education and 4) Planning and Evaluation. In addition, there is one research project as well as two Shared Resources - Bioethics and Biostatistics/Bioinformatics. By leveraging the distinct yet complementary strengths and resources of this Partnership, we intend to gain a better understanding of the causes for cancer health disparities which will lead to the reduction and/or elimination of the disparities in cancer observed in minority populations.

2015-2016 PATENTS

Inventor(s): Teshome Yehualaeshet, Temesgen Samuel, Tsegaye Habtemariam, and Woubit Abdela

U.S. Patent No.: 9,434,976 B2

Patent Date: 9/6/2016

Modification of Polymerase Chain Reaction Sample Preparation to Differentiate Live and Dead Bacteria



Teshome Yehualaeshet



Tsegaye Habtemariam



Temesgen Samuel



Abdela Woubit

Polymerase chain reaction (PCR) has been used as a tool for the quick detection of biothreat, foodborne pathogens, and other infectious microbes. However, PCR does not discriminate from DNA coming from live pathogens (harmful) or dead pathogens (harmless). The proposed viability PCR assay using GelRed (5,5'-(6,22-dioxo-11,14,17-trioxa-7,21-diazaheptacosane-1,27-diyl) bis (3,8-diamino-6-phenylphenanthridin-5-ium) iodide) will detect only the viable bacteria and the procedure is safe and easy to translate as a routine PCR-based detection platform in the diagnostic laboratory. The application of the patented viability PCR will be mainly but not limited to the food industry, to monitor biological decontamination, disinfection or sanitization process.

PREVIOUS PATENTS

Inventors: Abdela Woubit, Temesgen Samuel, Teshome Yehualaeshet

U.S. Patent No.: 8,883,488

Date of Patent: 11/11/2014

Detection of biothreat and foodborne pathogens

Inventors: Cecilia Yates-Binder, Timothy Turner, Alan Wells, Jesse Jaynes, Richard Bodnar

Patent Date: 5/27/2014

U.S. Patent No.: US 8,734,775 B2

Chemokine Derived Peptides that bind with Chemokine Receptor CXCR3 and Uses for Chronic Wound and Angiogenesis Inhibition Treatments

Inventors: Kokoasse Kpombluekou-A

Patent Date: 1/20/2015

U.S. Patent No.: 8,936,663 B2

Recovery of Phosphorus from Poultry Litter

Inventor: Kyung C. Kwon

U.S. Patent No.: 7,730,769 B1

Patent Date: 6/8/2010

Capillary Viscometers for Use With Newtonian And Non-Newtonian Fluids

Inventors: Clayton Yates, Jesse Jaynes, Timothy Turner

Patent Date: 6/11/2013

U.S. Patent No.: 8,461,118 B2

Lytic Peptideshaving Anti-Proliferative Activity Against Prostate Cancer Cells

Inventor: Heshmat Aglan

Patent Date: 5/19/2015

U.S. Patent No.: US 9,034,426

Nanostructured Thermoplastic Polyimide Films

Inventor: Heshmat Aglan

Patent Date: 6/7/2016

U.S. Patent No.: 9,358,628

Railroad Rail Head Repair

AWARDS RECEIVED

JULY 1, 2015-JUNE 30, 2016

| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|---------------------------------|------------------------|---|--------------|-----------------------|
| Jacobs ESSSA | Aglan, H. | Basic Task Order Agreement 22 | (250,105.15) | 10/03/15-09/30/16 |
| Federal Railroad Administration | Aglan, Heshmat | Development & Evaluation of Continuous Welded Rail-Joints | 95,000.00 | 09/01/11-09/30/16 |
| Chevron | Aglan, Heshmat | Chevron's Support to the College of Engineering | 218,000.00 | 09/02/15-No End Date |
| Jacobs ESSSA Group | Aglan, Heshmat | Basic Delivery Order Agreement 15 | 2,000.00 | 08/01/12-07/31/17 |
| Jacobs ESSSA Group | Aglan, Heshmat | Basic Delivery Order Agreement 16 | 5,000.00 | 08/01/12-07/31/17 |
| Jacobs ESSSA Group | Aglan, Heshmat | Basic Delivery Order Agreement 18 | 42,189.18 | 08/01/12-07/31/17 |
| Jacobs ESSSA Group | Aglan, Heshmat | Basic Delivery Order Agreement 19 | 31,140.98 | 08/01/12-07/31/17 |
| Jacobs ESSSA Group | Aglan, Heshmat | Basic Delivery Order Agreement 20 | 4,257.52 | 08/01/12-07/31/17 |
| Jacobs ESSSA Group | Aglan, Heshmat | Basic Delivery Order Agreement 21 | 975,684.66 | 08/01/12-07/31/17 |
| The Boeing Company | Aglan, Heshmat | Effectiveness of Conformal Coatings to Mitigate the Adverse Effects of Tin Whiskers | 30,000.00 | 03/18/13-No End Date |
| Alabama Power Foundation | Aglan, Heshmat | Enhancement of STEM Students Retention through FASTREC Summer Program | 25,000.00 | 10/21/15-10/21/16 |
| Jacobs ESSSA Group/NASA | Aglan, Heshmat | Basic Task Order Agreement (0023) | 145,710.10 | 09/27/14-09/30/16 |
| Raytheon | Aglan, Heshmat | Test and Validation of Connector Hardware for the use in Extreme Environments | (45,714.66) | 05/29/15-05/28/16 |
| Lockheed Martin | Aglan, Heshmat | Enhancement of STEM Education through FASTREC & MITE Summer Programs | 90,000.00 | 11/09/15-No End Date |
| Ethicon/Johnson&Johnson | Aglan, Heshmat | College of Engineering- Mechanical Department | 40,000.00 | 12/03/15-No End Date |
| NUCOR | Aglan, Heshmat | NUCOR Education and Research Center (NERC) | 100,000.00 | 07/01/09-07/31/16 |
| Jacobs ESSSA Group/NASA | Aglan, Heshmat | Basic Order Agreement (0024) | 84,260.55 | 10/03/15-09/30/16 |
| Jacobs ESSSA Group/NASA | Aglan, Heshmat | Basic Task Order Agreement (No. 0025) | 91,525.50 | 03/14/16-09/30/16 |
| Purdue University/NSF | Aglan, Heshmat | PIRE: Nuclear Energy Systems and Materials under Extreme Conditions | 80,000.00 | 10/01/12-09/30/16 |

AWARDS RECEIVED

JULY 1, 2015-JUNE 30, 2016

| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|---|------------------------------|--|-------------|-----------------------|
| Jacobs ESSA Group | Aglan, Heshmat | Basic Task Order Agreement (No. 027) | 93,654.00 | 04/04/16-09/30/16 |
| Jacob ESSA Group/NASA | Aglan, Heshmat | Basic Task Order Agreement (No.026) | 17,072.88 | 03/14/16-09/30/16 |
| Jacobs ESSA Group/NASA | Aglan, Heshmat | Basic Task Order Agreement No. 028 | (69,504.04) | 10/12/15-12/16/15 |
| Jacobs ESSA | Aglan, Heshmat | Basic Task Order Agreement 0029 | (33,596.40) | 08/01/12-07/31/17 |
| NSF | Aji, Chadia | Fly High your Math and Science Skills | 482,107.00 | 09/01/16-08/31/19 |
| Rockwell Collins Charitable Corporation | Akashah, Firas | Project Based Approach Combining Experiment, Theory and Computations for Improved Student Engagement and Learning of Rigid Body Dynamics Using Gyroscopes as a Theme | 6,600.00 | 06/22/15-No End Date |
| Howard Hughes Medical Institute | Alexander, Deloris | Howard Hughes Institute 2012 College Initiative | 250,000.00 | 09/01/15-08/31/16 |
| USDA/FS/SRS | Ankumah, Ramble | Soil Responses to Ecosystem Restoration | 34,200.00 | 07/08/15-12/31/16 |
| University of Nebraska/USDA | Ankumah, Ramble | Soil Quality of Soils from Selected Areas of the United States | 98,480.00 | 09/18/15-08/31/17 |
| U.S. Department of Defense/USAF/AFRL | Asundi, Sharan | Magnetic Coil Test for Researching Magnetic Activity of Pico/Nano/Micro Satellites (PNSats) | 151,370.00 | 09/30/15-09/29/16 |
| NSF | Asundi, Sharan | RIA: Magnetic Field Mapping of Pico/Nano/Micro- Satellites to Facilitate Refinement of their Guidance/Navigation Systems & Magnetic Cleanliness | 299,907.00 | 06/15/16-05/31/19 |
| Virginia Tech | Baharanyi, Ntam | INNOVATE | 64,600.00 | 12/04/15-09/30/16 |
| USDA/NIFA | Baharanyi, Ntam | Federal Retirement Systems | 2,721.00 | 10/01/15-09/30/20 |
| USDA/NIFA | Baharanyi, Ntam/Hill, Walter | Administrative Office | 459,666.00 | 10/01/15-09/30/16 |
| USDA/NIFA | Baharanyi, Ntam/Hill, Walter | County Offices | 886,712.00 | 10/01/15-09/30/16 |
| USDA/NIFA | Baharanyi, Ntam/Hill, Walter | On-Campus Specialists | 767,383.00 | 10/01/15-09/30/16 |
| USDA/NIFA | Baharanyi, Ntam/Hill, Walter | Administrative Offices | 38,262.00 | 10/01/15-09/30/17 |
| USDA/NIFA | Baharanyi, Ntam/Hill, Walter | County Offices | 38,261.00 | 10/01/15-09/30/17 |
| USDA/FS | Bolden-Tiller, Oglala | TNF - More Kids in the Woods | 18,000.00 | 08/06/15-09/30/16 |

AWARDS RECEIVED

JULY 1, 2015-JUNE 30, 2016

| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|-------------------------------------|------------------------|--|------------|-----------------------|
| Monsanto Company | Bolden-Tiller, Olga | Monsanto 1890 Scholarship | 10,000.00 | 06/01/15-05/31/16 |
| USDA/APHIS/WS | Bolden-Tiller, Olga | Wild Pig Conference | 5,000.00 | 04/17/16-04/22/16 |
| USDA/NIFA | Bolden-Tiller, Olga | Cooperative Agreement Award between Tuskegee University and USDA/APHIS to Support the Ag-Discovery Summer Enrichment Program | 52,000.00 | 01/01/16-12/31/16 |
| USDA/NIFA | Bonsi, Eunice | Expanded Food and Nutrition Education Program (EFNEP) | 91,785.00 | 10/01/14-09/30/19 |
| USDA/NIFA | Bonsi, Eunice | Expanded Food and Nutrition Education Program | 21,498.00 | 10/01/15-09/30/20 |
| Indiana University/NIH | Bradford, Chastity | Bridges to the Doctorate at IU School of Medicine | 45,550.00 | 09/01/12-08/31/16 |
| University of California-SF | Calhoun, Maria | UCSF-Tuskegee Partnership in Bioengineering | 15,000.00 | 07/01/15-12/31/16 |
| NSF | Curry, Michael | RET Site: Collaborative Research Sustainable Electronics | 147,591.00 | 09/15/15-08/31/18 |
| University of Wisconsin-Madison/NSF | Curry, Michael | CCI Phase II: Center of Sustainable Nanotechnology | 75,000.00 | 09/01/15-08/31/17 |
| University of Alabama/NIH | Gayle, Catherine | Higher Education Consortium on Child Welfare | 43,349.00 | 10/01/15-09/30/16 |
| USDA/FAS | Gilbreath, Ebony | Sponsoring the Tiger Orientation Leadership Experience | 3,000.00 | 07/08/15-07/07/16 |
| USDA/APHIS | Habtemariam, T./Tameru | Africa SPS Capacity Building | 200,000.00 | 09/22/15-09/21/16 |
| State of Alabama | Haley, Emma | Alabama Educator Preparation Program (edTPA) | 7,500.00 | 10/01/14-09/30/16 |
| University of Alabama | Hannon, Lonnie | Power Lunch Program | 5,000.00 | 08/01/15-07/31/16 |
| USDA/NRCS | Hargrove, Tasha | Outreach to Historically Underserved Farmers and Landowners in the Cleveland Ohio Locale; ensuring that they have Access to NRCS Conservation Programs | 25,000.00 | 06/30/15-06/30/16 |
| NSF | He, Qinghua | EAGER: Cybermanufacturing: Collaborative Research: A Novel Process Data Analytics Framework for IoT-enabled Cybermanufacturing | 59,643.00 | 09/15/15-08/31/17 |
| Auburn University/Univ. of TN/USDA | He, Qinghua | Southeast Partnership for Integrated Biomass Systems | 20,000.00 | 08/01/11-07/31/16 |
| USDA/NIFA | Hill, Walter | Federal Retirement Systems (FERS) | 4,846.00 | 10/01/14-09/30/19 |
| USDA/NIFA | Hill, Walter | Tuskegee University Renewable Resources Program | 10,721.00 | 10/01/14-09/30/16 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|--|--|---|--------------|-----------------------|
| USDA/FS | Hill, Walter | Forestry and Natural Resources Research and Demonstrations related to Socially Disadvantaged and Underserved Farmers and Landowners | 30,000.00 | 09/01/15-08/31/16 |
| USDA/NIFA Evans-Allen | Hill, Walter | Integrative Propagation, Production and Product Development of Alternate BioEnergy and Fiber Crops in Alabama for Socially and Historically Disadvantaged (SHD) Farmers and Communities | 14,000.00 | 10/01/15-09/30/16 |
| USDA/APHIS | Hill, Walter | Cooperative Agreement Award between TU and USDA/APHIS Wildlife Services and National Wildlife Research Center | 15,000.00 | 09/01/15-08/31/16 |
| Tuskegee University Miscellaneous | Hill, Walter | PAWC | 4,472.13 | No End Date |
| Miscellaneous | Hill, Walter | Professional Agricultural Workers Conference (PAWC) | 34,370.00 | No End Date |
| Miscellaneous | Hill, Walter | Professional Agricultural Workers Conference (PAWC) | 2,552.00 | No End Date |
| USDA/NIFA | Hill, Walter | Federal Retirement Systems (FRS) | 556.00 | 10/01/15-09/30/20 |
| USDA/McIntire-Stennis | Hill, Walter | Assessing the Impact of Forest Management Practices by Limited Resource Forestland Owners on Above and Below Ground Exosystems in Alabama Black Belt Counties | (2,144.00) | 10/01/15-09/30/17 |
| USDA/McIntire-Stennis | Hill, Walter | Integration of Meat Goats in Pine Silvopasture Systems in a Sustainable Forest Vegetation Management | (2,144.00) | 10/01/15-09/30/17 |
| USDA/McIntire-Stennis | Hill, Walter | Administrative of Research Supported by McIntire Stennis Forest Research Programs Funds | (1,072.00) | 10/01/15-09/30/17 |
| USDA/Evans-Allen | Hill, Walter | Administrative Budget | 80,717.00 | 10/01/15-09/30/17 |
| State of Alabama | Hill, Walter/Baharanyi, Ntam | 1890 State Matching Formula Funds | 1,484,788.00 | 10/01/15-09/30/16 |
| State of Alabama | Hill, Walter/Baharanyi, Ntam | 1890 State Matching Formula Funds | 300,000.00 | 10/01/15-09/30/16 |
| AALGA/State of Alabama | Hill, Walter/Bonsi, Conrad | State of Alabama 1890 Matching for USDA/NIFA McIntire-Stennis Forestry Formula Funds | 134,881.00 | 10/01/15-09/30/16 |
| AALGA | Hill, Walter/Bonsi, Conrad | AALGA Matching Funds for USDA/Evans-Allens Research Projects | 2,448,343.00 | 10/01/15-09/30/16 |
| USDA/NIFA McIntire-Stennis Cooperative Forestry Research Program | Hill, Walter/Bonsi, Conrad | Administrative of Research Supported by McIntire Stennis Forest Research Programs Funds | 65,393.00 | 10/01/15-09/30/16 |
| USDA/NIFA Evans-Allen | Hill, Walter/Bonsi, Conrad | Administrative Budget Evans-Allen | 2,534,123.00 | 10/01/15-09/30/16 |
| USDA/NIFA | Hill, Walter/Bonsi, Conrad/ Ankumah, Ramble | Assessing the Impact of Forest Management Practices by Limited Resource Forestland Owners on Above and Below Ground Ecosystems in Alabama Black Belt Counties | 130,786.00 | 10/01/15-09/30/16 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|--|--|--|--------------|-----------------------|
| USDA/NIFA | Hill, Walter/Bonsi, Conrad/ Baharanyi, Ntam/Bonsi, Eunice) | 1890 Facilities Grant Program at Tuskegee University | 952,994.00 | 09/01/13-08/31/16 |
| USDA/NIFA Evans-Allen | Hill, Walter/Dawkins, Norma | Integrative Approach to Prevention and Reduction of Overweight and Childhood Obesity in the Alabama Black Belt | 19,735.00 | 10/01/15-09/30/16 |
| USDA/NIFA McIntire-Stennis Cooperative Forestry Research Program | Hill, Walter/Gurung, N. | Integration of Meat Goats in Pine Silvopasture Systems in a Sustainable Forest Vegetation Management | 130,786.00 | 10/01/15-09/30/16 |
| USDA/NIFA Evans-Allen | Hill, Walter/Mortley, Desmond | Sustainable Fruit and Vegetable Production, Product Development and Marketing Strategies for Socially Disadvantaged Farmers and Cooperatives (SHDFC) in Alabama | 14,000.00 | 10/01/15-09/30/16 |
| USDA/NIFA Evans-Allen | Hill, Walter/Okere, C. | Sustainable Meat Goat and Alternative Poultry Productions Systems for Limited Resource Producers | 11,500.00 | 10/01/15-09/30/16 |
| USDA/NIFA Evans-Allen | Hill, Walter/Quansah, Joseph | Assessment of Global Climate Change Impacts on Water Resources and Crop and Forest Productivity and Adaptations by Limited Resources Farmers and Forestland Owners in the Black Belt Region of Alabama | 11,500.00 | 10/01/15-09/30/16 |
| USDA/Rural Development | Hill, Walter/Robinso, Miles | Rural Business Enterprise Grant | 100,000.00 | 08/14/15-08/13/16 |
| US Army | Hosur, Mahesh | Binary Nanoparticles Filled Fiber Reinforced Composites for Enhanced Damage Tolerance and Fatigue Life Subjected to Marine Environments | 594,000.00 | 09/01/15-08/31/18 |
| NSF | Hosur, Mahesh | RII: Enhancing Alabama's Research Capacity in Nano-Bio Science and Sensors | 750,000.00 | 09/01/11-08/31/16 |
| Purdue University/NSF/IGERT | Hosur, Mahesh | IGERT: Global Traineeship for Sustainable Electronics | 243,719.00 | 07/01/12-06/30/16 |
| Case Western Reserve University | Hosur, Mahesh | Collaborative Research: Northern Ohio AGEP-T: A Racially & Ethnically Inclusive Graduate Education Model in Biology, Chemistry and Engineering | 136,142.00 | 10/01/15-03/31/19 |
| NSF | Hosur, Mahesh | CREST: Center of Excellence in Nanobiomaterials Derived from Biorenewable and Waste Resources | 100,000.00 | 10/01/11-09/30/16 |
| Marshall University Research Corporation | Jackson, Faye Hall | Healthy Living Healthy Habits | 5,000.00 | 11/09/15-No End Date |
| Iowa State University/NSF | Jackson, Jacqueline | Joint NSF/ERA-CAPS: Host Targets of Fungal Effectors as Keys to Durable Disease Resistance | 40,840.00 | 02/01/16-03/31/17 |
| Iowa State University/NSF | Jackson, Jacquelyn | Joint NSF/ERA-CAPS: Host Targets of Fungal Effectors as Keys to Durable Disease Resistance | 2,940.00 | 04/01/14-03/31/16 |
| NSF | Jeelani, Shaik | The NanoBio Science Partnership for Alabama Black Belt Region | 1,647,348.00 | 09/01/11-08/31/16 |
| John Hopkins University/NIH | Karanam, B. | Cervical Cancer Spore | 51,450.00 | 09/01/15-08/31/16 |
| USDA/NIFA | Karki, Uma | Sustaining Small Farmers, Ranchers, and Forest Owners through the Cluster Approach | 480,000.00 | 01/01/16-12/31/20 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|---|---|---|------------|-----------------------|
| USDA/NIFA | Kebede, Ellen/Ankumah, Ramble/Bolden-Tiller, Olga | Undergraduate Experimental Learning in Agribusiness | 149,944.00 | 09/01/15-08/31/18 |
| Brigham Young University/ Boeing | Khan, M.J. | Development and Delivery of AerosPACE Capstone Project Q4 2013-Q4 2016 | 6,500.00 | 09/02/14-12/31/16 |
| BYU/The Boeing Company | Khan, M.J. | Development and Delivery of AerosPACE Capstone Project Q4-2013-Q4-2016 | 5,000.00 | 09/01/15-12/21/15 |
| Rockwell Collins Charitable Corp. | Khan, M.J. | Tuskegee University Flight Control Systems Laboratory | 25,000.00 | No End Date |
| Brigham Young University/The Boeing Company | Khan, M.J. | Development and Delivery of Aerospace Capstone Project Q4 2013 - Q4 2016 | 4,000.00 | 01/11/16-05/31/16 |
| NSF | Khan, M.J./ Wu, Fan/Rossi, Marcia | Strategies: The Eyes Say It All: Using Web Page Design and Eye-Tracking Technology to Learn STEM Concepts, Research Skills, and Human Factors | 24,000.00 | 08/01/13-01/31/18 |
| NSF | Khan, Ovais | RIA: Direct Numerical Simulation for Shock/Turbulence Interaction with Applications to Supersonic Cavity Flows | 199,959.00 | 08/15/15-07/31/17 |
| USDA/NIFA | Kpombrekou-A, K | Development of a Centralized Research and Teaching Support System in Biogas Production | 600,000.00 | 09/01/15-08/31/18 |
| USDA/NIFA | Min, Byungjin/Mortley, Desmond | Development of Sustainable Food Packaging Systems Derived from Renewable Biomass | 500,000.00 | 09/01/15-08/31/18 |
| U.S. Department of Education | Moss-Smith, Jeanette | Academic Enhancement Core Curriculum and Retention Strategies for Students - Activity 1 | 722,819.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | Library Enhancement - Activity 2 | 315,667.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | Faculty Development - Activity 3 | 40,000.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | Renovation of Instructional Facilities - Activity 4 | 485,271.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | Enhancing the Curriculum through Technology - Activity 5 | 584,880.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | Program Administration | 128,820.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | SAFRA: ODEOL - Activity 1 | 323,712.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | SAFRA: TU One Stop Central - Activity 2 | 108,140.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Moss-Smith, Jeanette | SAFRA: TU Renovation of Instructional Facilities - Activity 3 | 431,851.00 | 10/01/15-09/30/16 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|---------------------------------------|------------------------|---|--------------|-----------------------|
| Howard University/NSF | Murphy, G. | Experimental Centric Based Engineering Curriculum | 74,400.00 | 09/15/15-08/31/16 |
| University of Alabama-Huntsville/NASA | Murphy, Greg | Alabama Space Grant Consortium | 3,000.00 | 04/23/15-03/22/18 |
| UAH/NASA | Murphy, Gregory | Alabama Space Grant Consortium FY 2015 3-YR Estimate | 7,500.00 | 04/23/15-03/22/18 |
| University of TN/NSF | Murphy, Gregory | NSF Engineering Research Center for Ultra-wide area Resilient Electric Energy Transmission Network | 75,000.00 | 08/15/11-07/31/18 |
| Xerox Corporation | Narang, Hira | PREFICS Summer Program - Scholarship Retention Funding | 45,000.00 | 06/01/03-No End Date |
| Rutgers University | Narang, Hira | Center of Excellence for Command, Control and Interoperability | 6,000.00 | 07/01/15-06/30/16 |
| Rutgers University/ | Narang, Hira | Center of Excellence for Command, Control and Interoperability | 6,000.00 | 07/01/15-06/30/16 |
| NSF | Narang, Hira | ITEST Strategies: The Tuskegee Partnership to Provide Technology Experiences through Aerial Drones in High School of the Alabama Black Belt | 1,192,593.00 | 05/01/16-04/30/19 |
| USDA/FAS | Nganwa, David | BFP 13 Egypt El-Sayed_FS@Tsuke_Mentor Visit | 7,942.00 | 06/16/15-09/30/16 |
| USDA/NIFA | Odemuyiwa, Solomon | A Project-based Approach to Teaching Virology and Immunology in the TU DVM Curriculum | 142,878.00 | 09/01/15-08/31/18 |
| FAMU/NNSA | Oni, B. | Consortium for Materials and Energy Studies | 175,000.00 | 10/01/14-09/30/16 |
| Tuskegee University Miscellaneous | Pace, Ralphenia | George Washington Carver Lecture Series | 42,061.75 | 07/30/07-No End Date |
| UAB/NIH | Pace, Ralphenia | DRC Intervention and Translation Core | 12,492.00 | 03/01/15-02/28/16 |
| HHS/NIH | Perry, Ruby | Endowment | 2,841,364.00 | 07/01/15-06/30/16 |
| U.S. Department of Education | Perry, Ruby | Academic Reinforcement and Instruction - Activity 1 | 768,833.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Student Support Services - Activity 2 | 180,531.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Virtual Biomedical Learning Resources - Activity 3 | 217,902.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Strengthening the Infrastructure in Graduate and Research Education - Activity 4 | 115,000.00 | 10/01/15-09/30/16 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|--|---------------------------------|--|--------------|-----------------------|
| U.S. Department of Education | Perry, Ruby | Development of Teaching Modules for Computer-Assisted Learning - Activity 5 | 112,164.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Maintenance and Renovation of Instruction Facilities - Activity 6 | 444,976.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Purchase and Installation of Laboratory and Classroom - Activity 7 | 35,000.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Improvement and Maintenance of the Development/Public Relations Office | 200,477.00 | 10/01/15-09/30/16 |
| U.S. Department of Education | Perry, Ruby | Administrative Management Tools and Capabilities | 78,300.00 | 10/01/15-09/30/16 |
| HHS/HRSA | Perry, Ruby | Centers of Excellence | 2,339,598.00 | 07/01/16-06/30/17 |
| ICRISAT/USAID | Prakash, C./He, G. | Genotyping a Mapping Population for Resistance to Groundnut Rust Disease | 12,250.00 | 07/01/15-06/30/16 |
| Iowa State University/USDA | Prakash, C./Jackson, Jacqueline | Transgenic Approached Managing Sudden Death Syndrome in Soybean | 72,302.00 | 01/01/13-12/31/16 |
| State 4-H International Exchange Program | Prosper, Doamekpor | 4-H International Exchange Japan Summer Inbound Program | 3,850.00 | No End Date |
| State of Alabama | Quinn, Garry | DBE Supportive Services Program | 202,975.00 | 10/10/15-11/09/16 |
| NSF | Rangari, V. | MRI: Acquisition of a Field Emission Scanning Electron Microscope for Research and Educational Training in Microscopic Characterization of Nanomaterials | 507,374.00 | 09/15/15-08/31/18 |
| Northeastern University/NSF | Rangari, V. | NET-IGE: Nanomedicine Academy of Minority Serving Institutions | 30,000.00 | 10/01/15-09/30/18 |
| USDA/FAS | Reddy, Gopal | Philippines Customs and Inspection | 33,068.00 | 09/10/15-09/10/16 |
| Egyptian Cultural & Educational Bureau | Reddy, Gopal | Epidemiological Studies on Environmental Pollution of Poultry Farms | 42,000.00 | No End Date |
| Lyrasis | Roberts, Juanita | HBCU Photograph Preservation Project | 5,000.00 | 04/01/15-10/30/16 |
| Smithsonian Institute | Roberts, Juanita | Archival Services | 24,500.00 | 01/15/15-06/30/16 |
| UNCF/Mellon Foundation | Robinson, Jontyle | Forging Direction and Solidifying Our Bases: Eighteen HBCUs with Museums, Galleries and Art Spaces | 35,000.00 | 03/15/16-03/14/17 |
| Hill's Pet Nutrition | Samuel, Temesgen | Support for the Small Animal Clinic | (40,000.00) | 03/01/13-02/28/16 |
| HHS/NIH | Samuel, Temesgen | Quercetin as an Enhancer of the Efficacy of 5-FU in Mouse Models of Colon Cancer | 110,250.00 | 02/01/16-01/31/17 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|--|------------------------|--|-------------|-----------------------|
| NIH | Samuel, Temesgen | Quercetin as an Enhancer of the Efficacy of 5-Fu in Mouse Models of Colon Cancer | (53,001.70) | 02/01/15-01/31/16 |
| NIH | Samuel, Temesgen | Quercetin as an Enhancer of the Efficacy of 5-Fu in Mouse Models of Colon Cancer | 53,002.00 | 02/01/16-01/31/17 |
| Dupont and Coca Cola | Sara, T. | Friends of Business | 85,000.00 | No End Date |
| Association of 1890 Research Directors, Inc. | Shange/Hill, Walter | Sustaining Small Farmers, Ranchers, and Forest Owners through the Cluster Approach | 180,000.00 | 10/01/15-09/30/16 |
| University of Central Florida | Sharma, Prakash | Electric Vehicle Transportation Center (EVTC) | 75,000.00 | 09/30/13-09/30/15 |
| Andrew Mellon Foundation | Shumate, Steven L | Strengthening Institutional Capacity and Sustainability: Putting the A in STEM for University-wide STEAM at TU | 500,000.00 | 07/01/15-05/31/18 |
| USDA/NIFA | Smith, Ron | Renewable Resources | 10,720.00 | 10/01/15-09/30/17 |
| USDA/NIFA | Smith, Ronald | Renewable Resources | 2,780.00 | 10/01/15-09/30/16 |
| NSF | Solomon, John | RIA: Tailoring Jet Instabilities using Ultrasonic Microactuators | 136,276.00 | 08/01/15-07/31/17 |
| NSF | Solomon, John | Collaborative Research: Tailored Instructions & Engineered Delivery using Protocols (TIED UP) | 135,280.00 | 08/01/15-07/31/17 |
| State of Alabama/USDA | Sullen, Janet | Summer Food Service Program (SFSP) | 124,525.00 | 10/01/15-09/30/16 |
| Auburn University/USDA | Tackie, Nii | Identifying Gaps between knowledge and practice and Distribution of local and regional foods for a more secure food supply chain | 149,436.00 | 12/15/12-12/14/16 |
| Center for Public Service Communications | Tameru, B. | The Tuskegee Youth Safe Haven | 29,970.00 | 05/01/15-09/30/15 |
| State of Alabama Board of Architects | Taylor, Daya | Board of Architects Alabama Grant | 8,150.00 | 09/06/12-No End Date |
| Federal Highway Administration | Tcherbi-Nareh, A. | The Dwight David Eisenhower Transportation Fellowship Program - Maurice Evans | 7,500.00 | 10/21/15-10/21/16 |
| Federal Highway Administration | Tcherbi-Nareh, A. | The Dwight David Eisenhower Transportation Fellowship Program - Raju Gupta | 5,000.00 | 10/21/15-10/21/16 |
| Federal Highway Administration | Tcherbi-Nareh, A. | The Dwight David Eisenhower Transportation Fellowship Program - Richard Harry | 5,000.00 | 10/21/15-10/21/16 |
| Federal Highway Administration | Tcherbi-Nareh, A. | The Dwight David Eisenhower Transportation Fellowship Program - Priscilla Lang | 10,000.00 | 10/21/15-10/21/16 |
| Federal Highway Administration | Tcherbi-Nareh, A. | The Dwight David Eisenhower Transportation Fellowship Program - Shatori Meadows | 7,500.00 | 10/21/15-10/21/16 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
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| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Center Partnership Supplement 2 | 207,442.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership/Pilot Project 1 | (35,223.00) | 09/01/13-08/31/14 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Administrative Core | 105,934.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Planning and Evaluation Core | 637,672.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Bioethics Shared Resources Core | 75,340.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Biostatistics Shared Resources Core | 32,549.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Cancer Education Program | 98,578.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Cancer Training Program | 90,860.00 | 09/01/15-08/31/16 |
| HHS/NIH/NCI | Troy, Roberta | Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Partnership- Cancer Outreach Program | 100,276.00 | 09/01/15-08/31/16 |
| NIH/NCI | Troy, Roberta | Morehouse School of Medicine/TU/UAB Comprehensive Cancer Center Partnership Pilot Core | 360,864.00 | 09/01/15-08/31/16 |
| NIH/NCI | Troy, Roberta | Morehouse School of Medicine/TU/UAB Comprehensive Cancer Center Partnership Pilot Core | (360,864.00) | 09/01/15-08/31/16 |
| Deep South Research Center | Troy, Roberta | Deep South Research Center for Minority Aging Research | 35,832.00 | 08/15/15-06/30/16 |
| USDA/NIFA | Vaughn, Barrett | Food Safety - Good Agricultural Practices (GAP) Outreach Program for Small Farmers with Commercial Markets | 226,869.00 | 09/01/15-08/31/18 |
| Lilly Endowment Inc. | Warren, Rueben | The Tuskegee University-Macon County Bridge Builders Programs | 600,000.00 | 11/01/15-05/31/18 |
| CDC | Warren, Rueben | Tuskegee University Commemoration Activities | 235,000.00 | 01/01/16-12/31/16 |
| Eli Lilly Company | Warren, Rueben | Enhancing African American Participation in Clinical Trials | 150,000.00 | No End Date |
| HHS/CDC | Warren, Rueben | Tuskegee University Commemoration Activities | 235,000.00 | 01/01/16-12/31/16 |
| HHS/NIH/CDC | Warren, Rueben | Tuskegee University Commemoration Activities | 31,200.00 | 01/01/16-12/31/16 |
| USDA/APHIS | Wilson, Saul | Feral Swine Outreach Activities Targeting Limited Resource Farmers | 225,000.00 | 04/06/15-04/05/16 |

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| SPONSOR | PRINCIPAL INVESTIGATOR | TITLE OF PROJECT | TOTAL | PERIOD OF PERFORMANCE |
|-----------------------------------|------------------------|---|------------|-----------------------|
| Auburn University | Wilson, Wylin | Ethical Decision Making in Human-computer Systems Interaction | 9,713.00 | 06/01/15-08/31/15 |
| Mid-South RC&D Council | Wilson, Wylin | Youth Hope Bridge Summer Internship Program | 2,000.00 | 06/01/16-07/01/16 |
| University of Alabama-Birmingham | Windham, Herman | Alabama LSAMP Student Transitions Phase V (YR5) | 57,778.00 | 09/01/15-08/31/16 |
| USDA/NIFA | Wirtu, G. | Enhancing Teaching Capacity in Animal Reproduction at TU | 149,909.00 | 09/01/15-08/31/18 |
| Alpha Cord LLC | Wirtu/Samuel | Veticell & Tuskegee Vet Research Agreement | 4,000.00 | 05/01/15-01/31/16 |
| U.S. DOE | Woodson, Edna | Upward Bound | 395,414.00 | 06/01/16-05/31/17 |
| USDA/FAS | Woubit, Abdela | BFP15 Vietnam Program QBNguyen-Strep Suis | 35,853.00 | 12/23/15-12/15/17 |
| HHS/NIH/NCI | Yates, Clayton | MSM/TU/UAB Comprehensive Cancer Center Partnership Supplement 1 | 199,999.00 | 09/01/15-08/31/16 |
| HHS/NIH | Yates, Clayton | RCMI Administrative Core | 514,579.00 | 07/01/15-06/30/16 |
| HHS/NIH | Yates, Clayton | Shared Instrumentation Facility (TURSIF) | 367,500.00 | 07/01/15-06/30/16 |
| HHS/NIH | Yates, Clayton | Infrastructure Development in Computational Biology and Formatics | 256,910.00 | 07/01/15-06/30/16 |
| HHS/NIH | Yates, Clayton | Transcriptional Regulation of Breast Cancer Metastasis within the Tumor Microenvi | 194,271.00 | 09/01/15-08/31/16 |
| UAB/NIH | Yates, Clayton | UAB Center for Clinical and Translational Science | 57,897.00 | 08/18/15-03/31/16 |
| University of Alabama- Birmingham | Yates, Clayton | UAB Center of Clinical and Translational Science (CCTS) | 73,162.00 | 04/01/16-03/31/17 |
| USDA/OAO | Zabawa, Robert | Small Farm Outreach, Training and Technical Assistance Project | 200,000.00 | 09/01/15-08/31/16 |
| USDA/NIFA | Zabawa, Robert | Tuskegee University Beginning Farmers and Ranchers Development Program | 459,914.00 | 09/01/15-08/31/18 |
| NSF | Zainuddin, S. | REU Site: Tuskegee University Research Experience for Undergraduates Nano-Bio Materials Science and Engineering | 87,000.00 | 03/01/14-02/28/17 |
| Clarkson Corp. | Zainuddin, S. | AFRL Collaboration Program - Materials and Manufacturing Research | 50,000.00 | 09/03/13-09/30/17 |
| Clarkson Aerospace Corporation | Zainuddin, Shaik | AFRL Collaboration Program: Materials and Manufacturing Research | 46,749.90 | 09/03/13-05/13/16 |
| Iowa State University/NSF | | Center for Biorenewable Chemicals (CBIRC) | 7,000.00 | 09/01/15-08/31/16 |

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