



# 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.



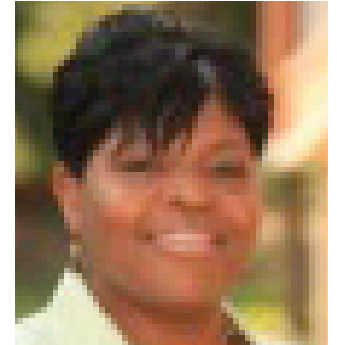
**Shaik Jeelani, Ph.D., P.E.,**  
Vice President for Research &  
Dean of Graduate Studies

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.

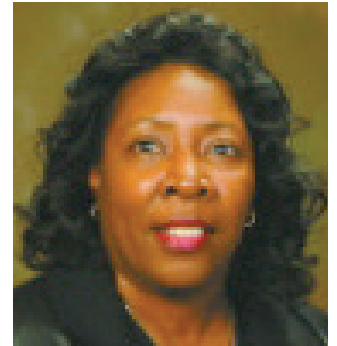
This report highlights only a few major grants received during the year 2015-2016, while all grants and contracts received are shown towards the end.



**Felecia Moss-Grant**  
Associate Director of Compliance



**Wanda Hairston**  
Director of Grants and Contracts

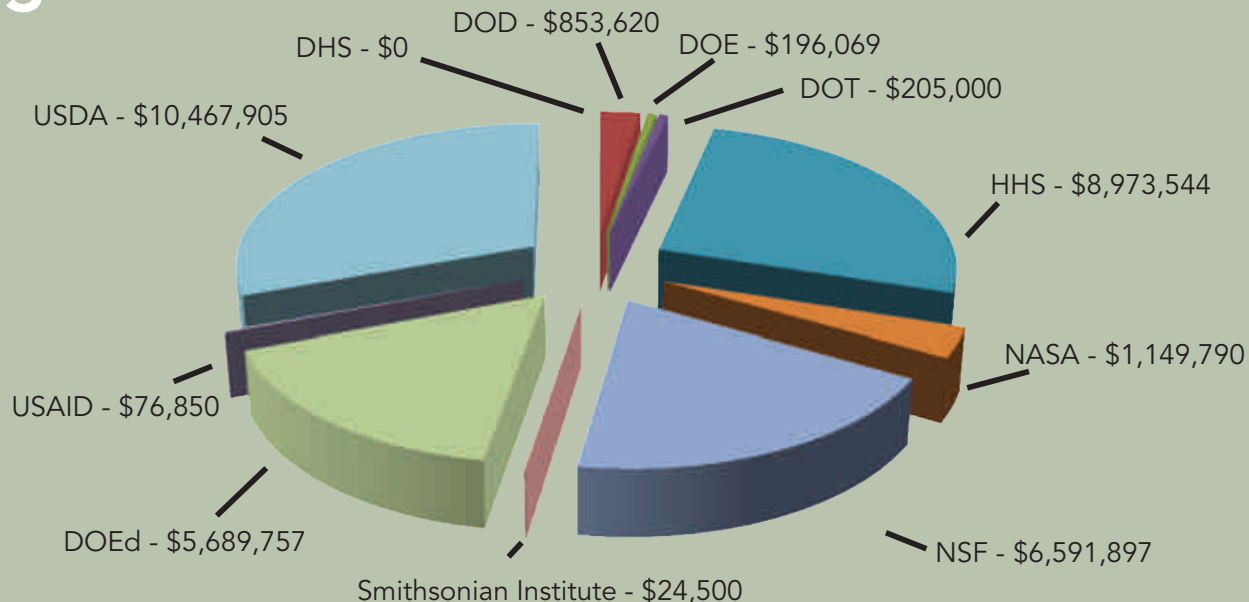


**Danette Hall**  
Director of Sponsored Programs

# 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
<b>Total</b>	<b>200</b>	<b>\$31,000,966.00</b>	<b>\$3,239,966.00</b>	<b>\$2,498,161.00</b>	<b>\$4,586,637.00</b>	<b>\$41,325,730.00</b>



**PRINCIPAL INVESTIGATOR: Mahesh Hosur**

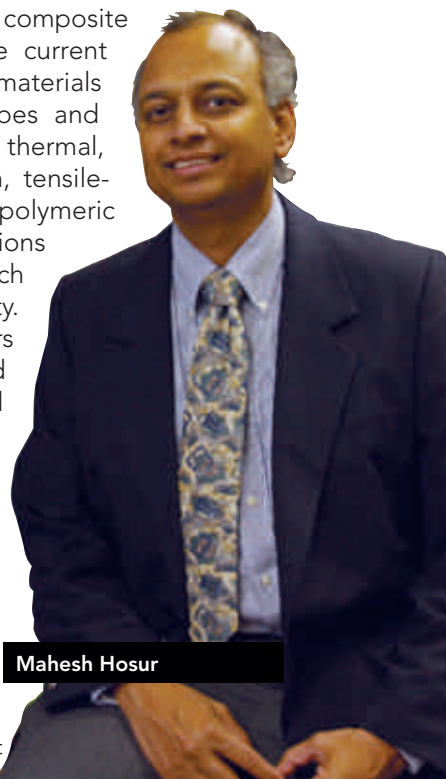
Professor/Head Material Science And Engineering

**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

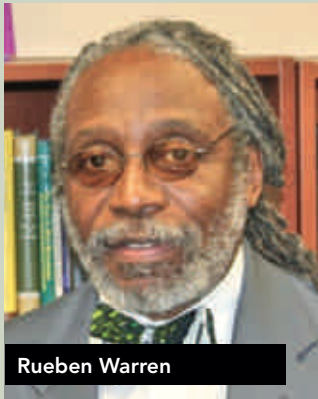
components from biomass residues of locally grown crops and use them to develop value-added food packaging systems equipped with advanced antimicrobial active food packaging technology. This will help to reduce the portion of waste packaging in landfills (now 45%) and that in **total municipal solid 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 Southeast.

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



# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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

# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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

# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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



# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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

# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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

# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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



# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

SPONSOR	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	TOTAL	PERIOD OF PERFORMANCE
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

# AWARDS RECEIVED

## JULY 1, 2015-JUNE 30, 2016

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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