## Scholar Presentations – 2016

|    |                    | Mississippi Academy of Science - Hattiesburg, M<br>2-19-2016   | IS                |
|----|--------------------|--|-------------------|
| 1  | Aurora Washington  | Using Photothermal Therapy for Selective Detection and Destruction of Cancer Cells   | Poster            |
| 2  | Timera Brown       | Accumulation of Cholesteryl Esters is Associated with the Progression of Prostate Cancer   | Poster            |
| 3  | Lauryn Ashford     | Silver nanoclusters as luminescence probes   | Oral              |
| 4  | Jabari Jackson     | Binding of flavonoids with biomacromolecules: A computational study  | Poster            |
| 5  | Breland Crudup     | Raman Spectroscopic and Electrochemical Studies<br>on Blue Copper Protein Amicyanin  | Poster            |
|    | Eme                | erging Researchers National Conference - Washing   | gton, DC          |
|    |                    | 2-27-2016  |                   |
| 6  | Timera Brown       | Accumulation of Cholesteryl Esters is Associated with the Progression of Prostate Cancer   | Poster            |
| 7  | Aswad Jackson      | The Novel Mechanism of Oxactive Stress in Fatty Livers   | Poster            |
| 8  | Waynesha Blaylock  | The effect of a STAT3 Inhibitor on the Growth and Cell Signaling of Breast Cancer Cells  | Poster            |
| 9  | Le'Andrea Mitchell | Mississippi Seals Program and Its Efforts to Decrease Childhood Caries and Provide Underserved Children with Access to Dental Care | Poster            |
| 10 | Karien Dixon       | Effect of Pneumococcal H2O2 on Epithelial Cell<br>Gene Expression  | Poster            |
| 11 | Michael Cleveland  | Identifying Commercial Business going green in DeKalb County, GA   | Poster            |
| 12 | Courtney Magnum    | The Neuroprotective Role of Galectin-1 on the Neuropathogensis of HIV-1  | Poster            |
|    | 13th Tougaloo      | -Mississippi College Undergraduate Research Symposiu<br>4-7-2016   | um - Tougaloo, MS |
| 13 | Waynesha Blaylock  | The Effect of a STAT3 Inhibitor on the Growth  | Oral              |
| 14 | Acacia Cooper      | and Cell Signaling of Breast Cancer Cells  Taxonomical Reclassification of Haemophilus parasuis                                    | Oral              |
| 15 | Aurora Washington  | Using Photothermal Therapy to Detect and Destroy Cancer Cells  | Oral              |
| 16 | Maria Muhammed     | Silver nanoclusters as a fluorescence probe for oxidative stress   | Oral              |
| 17 | Michael Cleveland  | Identifying Commercial Business going green in DeKalb County, GA   | Oral              |
| 18 | Courtney Sims      | Toxin and Protease Production by an Endophthalmitis Isolate of Streptococcus pneumonia   | Poster            |
| 19 | Corey Walters      | Structural Determination of the MYC G-   | Poster            |

| П  |                     | Quadruplex in Plasmid DNA  |                   |
|----|---------------------|--|-------------------|
| 20 | Chanta Cylras       | ` *  | Poster            |
| 20 | Shanta Sykes        | Activation of Sperm-Specific Genes Disrupts                                    | Poster            |
| 21 | 01 11 7 1 '         | Normal Root Development  | D (               |
| 21 | Sherrall Jenkins    | Transcriptional Regulation of Cardiac Sodium                                   | Poster            |
| 22 | 3.6 ' 3371 1 T      | Channel SCN5A Expression   | ъ.                |
| 22 | Maurice Whalen, Jr. | Atrial natriuretic peptide attenuates agonist-                                 | Poster            |
| 22 |                     | induced pulmonary edema  |                   |
| 23 | Courtney Mangum     | Neuroprotective Role of Galectin-1 on the                                      | Poster            |
|    |                     | Neuropathogenesis of HIV-1   | _                 |
| 24 | Kelli Gutter        | Epidemiological Analysis of a Methicillin                                      | Poster            |
|    |                     | Resistant Staphylococcus aureus Outbreak in the                                |                   |
|    |                     | Neonatal Intensive Care Unit   | _                 |
| 25 | Lauryn Ashford      | Silver nanoclusters as luminescence probes                                     | Oral              |
| 26 | Jessica G Torres    | The Advance Atmospheric Research and   | Oral              |
|    |                     | Monitoring Station (The ARMS Project)  |                   |
| 27 | Joshua Cotton       | Studies on MauG-CN Complexes Reveal Two  | Poster            |
|    |                     | Conformational States  |                   |
| 28 | Breland Crudup      | Raman Spectroscopic and Electrochemical Studies                                | Poster            |
|    |                     | on Blue Copper Protein Amicyanin   |                   |
|    | Unive               | ersity of Mississippi Medical Center Research Day – Jac                        | ckson, MS         |
|    |                     | 4-12-2016  | _                 |
| 29 | Jonathan Moore      | Correlates of Restin Arterial Diameter and Flow                                | Poster            |
|    |                     | Mediated Dilation (FMD) of Brachial Artery in                                  |                   |
|    |                     | African American: The Jackson Heart Study                                      |                   |
|    |                     | Ronald McNair Research Presentations – Oxford, M                               | IS                |
| 30 | Amanda Dortch       | 6-28-2016  | PowerPoint        |
| 30 | Allianda Dorten     | Children's Perspective of Skin Tone  Brown Research Symposium – Providence, RI | PowerPollit       |
|    |                     | 7-5-2016   |                   |
| 31 | Josiah Moore        | Screening For Positive Regulators of Ethylene                                  | Poster            |
| 31 | Josian Woole        | Synthesis  | 1 Ostel           |
|    | Bre                 | own Summer Research Joint Lab Symposium – Provide                              | ence. RI          |
|    |                     | 7-18-2016  |                   |
| 32 | Shanta Sykes        | Ectopic Expression of DUO1 in Roots  | PowerPoint        |
|    | <b>,</b>            | STARS Practice Presentation – Boston, MA                                       |                   |
|    |                     | 7-22-2016  |                   |
| 33 | Jabari Jackson      | Role of Albumin in Proximal Tubule Mitophagy                                   | PowerPoint/Poster |
|    |                     | Diversity Summer Internship Presentation – Baltimore                           | , MD              |
|    |                     | 7-26 and 27-2016   |                   |
| 34 | Aswad Jackson       | Social Economic Differences in Self Care                                       | PowerPoint        |
|    |                     | Behaviors in Living Kidney Donors  |                   |
| 35 | Aswad Jackson       | Social Economic Differences in Self Care                                       | Oral              |
|    |                     | Behaviors in Living Kidney Donors  |                   |
|    | Howard              | l University Summer Research Symposium – Wash                                  | nington, DC       |
|    |                     | 7-27-2016  |                   |
| 36 | Michael Cleveland   | The Effect of PTEN Loss on TRPC6 Activity                                      | Poster            |
|    |                     | Involving Migration of Co-Culture prostate                                     |                   |
|    |                     | Cancer & Bone Morphogenic Model  |                   |
|    |                     |  |                   |

|  | 2016 Summer   | Undergraduate Research & Creative Achievement Foru<br>7-28-2016         | ım – Columbia, MI   |  |  |
|--|---|---|---------------------|--|--|
| 37   | Danielle Magee  | Evaluation of Cognitive Abilities Associated with                       | Poster              |  |  |
|  |   | Physical Activity Rates in Mice   |                     |  |  |
|  | Mississippi INBRE Scholars Poster Presentation—Jackson, MS<br>7-28-2016 |   |                     |  |  |
| 38   | Allison Barnes  | Hypertension in HELLP Syndrome a consequence of Reactive Oxygen Species | Poster              |  |  |
|  |   | Ronald McNair Research Presentations – Oxford, M                        | S                   |  |  |
|  |   | 7-28-2016   |                     |  |  |
| 39   | Maria Muhammad  | Interactions Between JWH Compounds and the                              | Oral                |  |  |
|  | TT A  | Active-State CB1 Receptor Model   | ones DI             |  |  |
|  | Und   | lergraduates' Summer Research Presentations – Provid<br>7-28-2016       | ence, KI            |  |  |
| 40   | Maurice Whalen, Jr.   | The Function of the Natriuretic Peptide Receptor C in                   | Oral/PowerPoint     |  |  |
|  | 1,100,1100 ,, 100,011, 011  | Attenuating Agonist Induced Acute Lung Injury                           | 0102/1 0 ((011 0120 |  |  |
|  | Mis   | sissippi INBRE Research Symposium 2016 – Jacks                          | on, MS              |  |  |
|  |   | 7-28-2016   |                     |  |  |
| 41   | Tembra Jones  | Interleukin-1 Receptor Antagonist Reduces                               | Poster              |  |  |
|  |   | Lipopolysaccharide-Induced Brain Injury and                             |                     |  |  |
|  |   | Improves Neurobehavioral Performance in                                 |                     |  |  |
|  | ~   | Neonatal Rats   | 3.50                |  |  |
| Summer Undergraduate Research Symposium – Jackson, MS<br>7-29-2016 |   |   |                     |  |  |
| 42   | Joshua Cotton   | Studies of Cytochrome p450 Effects on Vascular                          | Poster              |  |  |
|  |   | remodeling in Preeclamptic Mothers                                      |                     |  |  |
|  |   | Leadership Alliance National Symposium – Stamford, 7-30-2016            | CT                  |  |  |
| 43   | Maurice Whalen, Jr.   | The Function of the Natriuretic Peptide Receptor C in                   | Oral/PowerPoint     |  |  |
|  |   | Attenuating Agonist Induced Acute Lung Injury                           |                     |  |  |
| 44   | Michael Cleveland   | The Effect of PTEN Loss on TRPC6 Activity                               | Poster              |  |  |
|  |   | Involving Migration of Co-Culture Prostate Cancer                       |                     |  |  |
|  | D • 1   | & Bone Morphogenic Model  | D 4 MA              |  |  |
|  | Brignam   | and Women's STARS Summer Program Presentation - 8-2-2016                | - Boston, MA        |  |  |
| 45   | Lauryn Ashford  | Investigating the Mechanism of Vascular                                 | PowerPoint          |  |  |
|  | <u> </u>  | Pathology in Cerebral Malaria: The Effect of                            |                     |  |  |
|  |   | Histones on Endothelial Protein C Receptor                              |                     |  |  |
|  |   | Expression  |                     |  |  |
|  |   | 2016 Summer Student Presentations – Lemont, IL<br>8-3-2016              |                     |  |  |
| 46   | Shanterell Redd   | Food-Energy-Water-Nexus   | Oral/PowerPoint     |  |  |
|  | 2016  | Prostate Cancer Research Mini-Symposium – Jack                          | kson, MS            |  |  |
|  |   | 8-3-2016  | ,                   |  |  |
| 47   | Courtney Mangum   | Identifying Progression of Aggressive Prostate                          | Oral                |  |  |
|  |   | Cancer Originating from Lunatic Fringe/Notch-                           |                     |  |  |
|  |   | Regulated Mice Models   |                     |  |  |
| 48   | Courtney Mangum   | Identifying Progression of Aggressive Prostate                          | Poster              |  |  |
|  |   | Cancer Originating from Lunatic Fringe/Notch-                           |                     |  |  |
|  |   | Regulated Mice Models   |                     |  |  |

| 49         | Courtney Mangum  |  |                 |
|------------|--|--|-----------------|
|            |  | Identifying Progression of Aggressive Prostate   | Oral            |
|            |  | Cancer Originating from Lunatic Fringe/Notch-  |                 |
|            |  | Regulated Mice Models  |                 |
|            | Vanderbilt Summer Science Academy 14 <sup>th</sup> Annual Student Research Symposium – Nashville<br>8-4-2016 |  |                 |
| 50         | Timera Brown   | Regenerative Medicine: Synthesis of  | Poster          |
|            |  | Functionalized Polyglycidol Building Blocks for  |                 |
|            |  | Diverse Networks   |                 |
|            |  | Brown Summer Research Symposium – Providence, I<br>8-4-2016                                  | RI              |
| 51         | Shanta Sykes   | Activation of Sperm-Specific Genes Disrupts  | Poster          |
|            |  | Normal Root Development  |                 |
|            | Mort   | tality Meeting/Medical Student Presentations – Akwaitia<br>8-4-2016                          | a, Ghana        |
| 52         | Kierra Jones   | Care Continuum Postpartum of Prevention of   | PowerPoint      |
| 32         | Kiella Jolles  | Mother to Child Transmission of HIV in Akwaitia  | roweiroilit     |
|            |  | Ghana  |                 |
|            |  | Summer Research Presentation – St. Louis, MO   |                 |
|            |  | 8-5-2016   |                 |
| 53         | Karien Dixon   | Testing the Feasibility of Genetic Testing in  | Poster          |
|            |  | African American Women with the Diagnosis of   |                 |
|            |  | Breast Cancer  |                 |
|            |  | Harvard Catalyst SCTRP Closing Presentations   |                 |
| <i>E</i> 1 | D11 C1   | 8-11-2016  | D D             |
| 54         | Breland Crudup   | Medical Image Registration: Measuring the  | PowerPoint      |
|            |  | Tradeoff between Manual Label Overlap and Regularization                                     |                 |
|            | Now  | Saint Phillips M.B. Church Presentations - Clevela   | and MS          |
|            |  | 9-3-2016   |                 |
| 55         | Kierra Jones   | Care Continuum of HIV-Positive Mothers   | PowerPoint      |
|            |  | Postpartum PMTCT in Akwaitia, Ghana  |                 |
|            | ']   | Fougaloo College Biology Presentations – Tougaloo,   | , MS            |
| <u> </u>   | 17. 1  | 9-14-2016  |                 |
| 56         | Kierra Jones   | Care Continuum of HIV-Positive Mothers   | PowerPoint      |
|            | T  | Postpartum PMTCT in Akwaitia, Ghana  | . MC            |
|            | E  | liminating Health Disparities Conference – Jackson<br>10-7-2016                              | 1, 1/15         |
| 57         | Aswad Jackson  | Socioeconomic Differences in Hypertension  | Poster          |
|            | 115 ( 66 0 66 15 61  | Management and Self-Care in Living Kidney  | 1 00001         |
|            |  | Donors   |                 |
| 58         | Jonathan Zuniga<br>Hernandez   | Retention Barrier Analysis for Study of Latinos  | Oral/PowerPoint |
| 59         | Kierra Jones   | Care Continuum of HIV-Positive Mothers   | Poster          |
|            |  | Postpartum PMTCT in Akwaitia, Ghana  |                 |
| 60         | Jessica Gutierrez  | Retention Barriers of the Hispanic Community   | Oral            |
|            |  | Health Study, Study of Latinos(SOL) nal Medical Association of Pre-Medical Students(SNMA/MA) |                 |

|     |                      | 10-8-2016  |                 |
|-----|----------------------|--|-----------------|
| 61  | Timera Brown         | Accumulation of Cholesterol Esters is Associated   | Poster          |
| 62  | Josiah Moore         | with the Progression of Prostate Cancer Screening For Positive Regulators of Ethylene          | Poster          |
| 02  | Josian Woole         | Synthesis  | 1 Oste1         |
|     | 15                   | th Annual Kincheloe Society Symposium – Tougaloo, MS   |                 |
|     |                      | October 14-15, 2016  |                 |
| 63  | Lauryn Ashford       | Investigating the Mechanism of Vascular Pathology  | Poster          |
|     |                      | in Cerebral Malaria: The Effect of Histones on   |                 |
|     |                      | Endothelial Protein C Receptor Expression  |                 |
| 64  | Josiah Moore         | Screening For Positive Regulators of Ethylene  | Poster          |
|     |                      | Synthesis  |                 |
| 65  | Danielle Magee       | Evaluation of Cognitive Abilities Associated with Physical Activity Rates in Mice              | Poster          |
| 66  | Cory Walters         | Structural Determination of the MYC G-Quadruplex   | Poster          |
|     |                      | in Plasmid DNA   |                 |
| 67  | Jabari Jackson       | Role of Albumin in Proximal Tubule Mitophagy   | Poster          |
| 68  | Joshua Cotton        | Cytochrome P450 Expression and 20-HETE   | Poster          |
|     |                      | production during pregnancy  |                 |
| 69  | Shanterell Reed      | Water-Food-Energy Nexus and the Effect on women  | Oral/PowerPoint |
| 70  | Aswad Jackson        | Socioeconomic Differences in Hypertension  | Oral            |
|     |                      | Management and Self-Care in Living Kidney  |                 |
| 7.1 | T. ' D'              | Donors   | 0.1             |
| 71  | Karien Dixon         | Testing the Feasibility of Genetic Testing in African  | Oral            |
|     |                      | American Women with the Diagnosis of breast  |                 |
| 72  | Mannias Whales Is    | Cancer The Function of the Natriuretic Peptide Receptor C in                                   | Dootou          |
| 72  | Maurice Whalen, Jr.  | Attenuating Agonist Induced Acute Lung Injury  | Poster          |
| 73  | Breland Crudup       | Medical Image Registration: Measuring the Tradeoff   | Oral            |
| 75  | Diciana Craaap       | between Manual Label Overlap and Regularization  | Olui            |
| 74  | Tembra Jones         | Anti- Inflammatory Cytokine Interleukin-1  | Poster          |
|     |                      | Receptor Antagonist Reduces Lipopolysaccharide-  |                 |
|     |                      | Induced Neurobehavioral Deficits and White Matter  |                 |
|     |                      | Damage in Neonatal Rats  |                 |
| 75  | Courtney Mangum      | Identifying Progression of Aggressive Prostate   | Poster          |
|     |                      | Cancer Originating from Lunatic Fringe/Notch-  |                 |
|     |                      | Regulated Mice Models  |                 |
| 76  | Jessica Gutierrez    | Retention Barriers of the Hispanic Community   | Oral            |
|     |                      | Health Study, Study of Latinos(SOL)  |                 |
| 77  | Allison Barnes       | Hypertension in Pregnant Rats with Hemolysis Elevated  | Poster          |
|     |                      | Liver Enzymes Low Platelet Syndrome (HELLP) is Associated with an Increase in Oxidative Stress |                 |
| 78  | Maria Muhammad       | Active-State CB1 Receptor Model used as a Synthetic  | Poster          |
| , 5 | 1.2W.W 1.1WIIWIIIIWW | Cannabinoid Probe  | 1 00001         |
| 79  | Michael Cleveland    | The Effect of PTEN Loss on TRPC6 Activity  | Poster          |
|     |                      | Involving Migration of Co-Culture Prostate Cancer  |                 |
|     |                      | & Bone Morphogenic Model   |                 |
| 80  | Kierra Jones         | Care Continuum of HIV-Positive Mothers   | Poster          |
|     |                      | Postpartum PMTCT in Akwaitia, Ghana  |                 |

| 81  | Jonathan Zuniga<br>Hernandez | Retention Barrier Analysis for Study of Latinos  | Oral/PowerPoint |
|-----|------------------------------|--|-----------------|
| 82  | Shanta Sykes                 | Activation of Sperm-Specific Genes Disrupts Normal Root Development                                  | Poster          |
| 83  | Timera Brown                 | Regenerative Medicine: Synthesis of Functionalized Polyglycidol Building Blocks for Diverse Networks | Poster          |
|     | <b>Annual Biomedical</b>     | Research Conference for Minority Students (ABRCN<br>November 9-12, 2016                              | IS) – Tampa, FL |
| 84  | Tembra Jones                 | Interleukin-1 Receptor Antagonist Reduces  | Poster          |
| 01  | Temora Jones                 | Lipopolysaccharide-Induced Brain Injury and  | 1 oster         |
|     |                              | Improves Neurobehavioral Performance in Neonatal   |                 |
|     |                              | Rats   |                 |
| 85  | Michael Cleveland            | The Effect of PTEN Loss on TRPC6 Activity  | Poster          |
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| 87  | Aswad Jackson                | Socioeconomic Differences in Hypertension  | Poster          |
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| 88  | Allison Barnes               | Hypertension in Pregnant Rats with Hemolysis Elevated  | Poster          |
|     |                              | Liver Enzymes Low Platelet Syndrome (HELLP) is   |                 |
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| 89  | Maria Muhammad               | Active-State CB1 Receptor Model used as a Synthetic Cannabinoid Probe                                | Oral            |
| 90  | Courtney Mangum              | Identifying Progression of Aggressive Prostate   | Poster          |
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| 91  | Karien Dixon                 | Testing the Feasibility of Genetic Testing in African  | Poster          |
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| 93  | Maurice Whalen, Jr.          | The Function of the Natriuretic Peptide Receptor C in  | Oral/Poster     |
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