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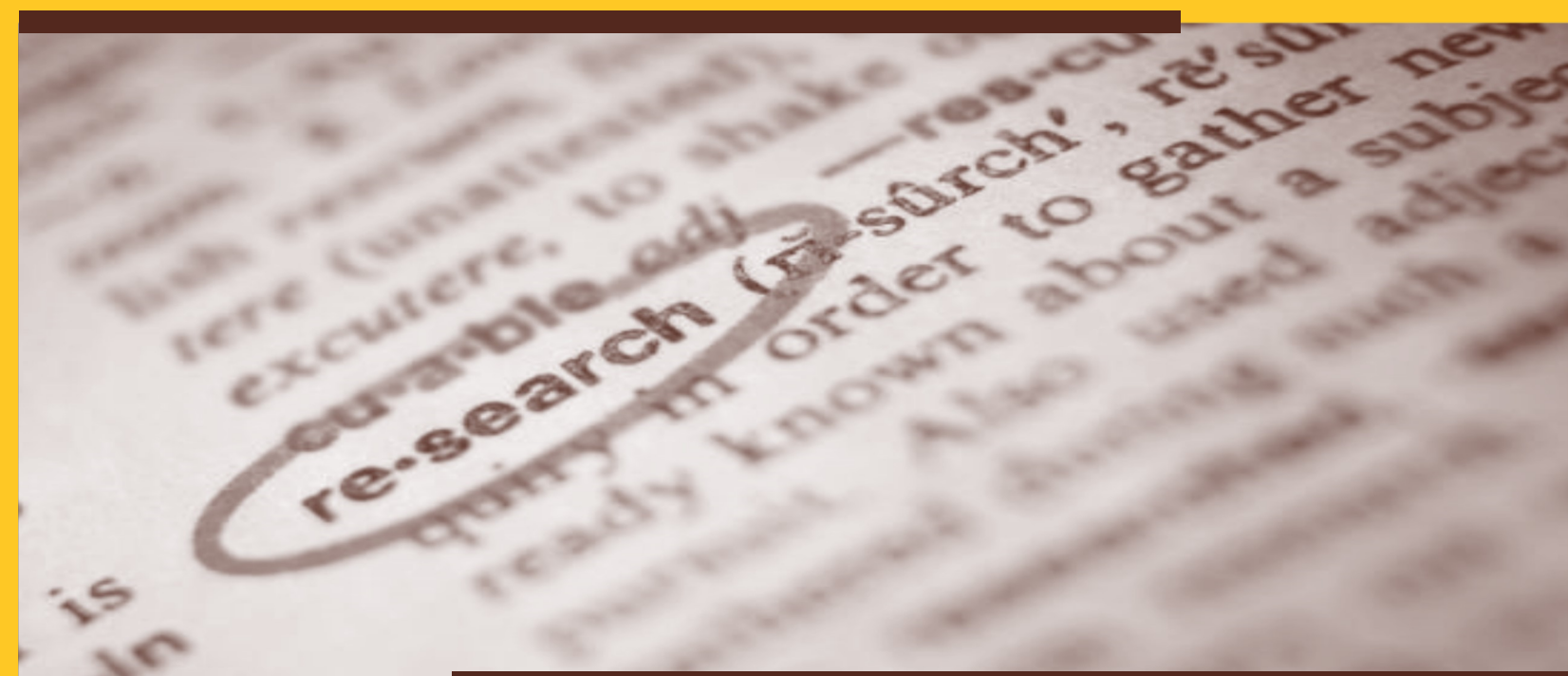
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ANNUAL REPORT

2016-2017



OFFICE OF SPONSORED PROGRAMS



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School of Osteopathic Medicine Proposals Continued

Family Medicine

| Title | Project Investigator | Sponsor | Requested Amount |
|--|----------------------|---|------------------|
| Pre-doctoral Inter-professional Education | Coren, Joshua | The Josiah Macy Jr. Foundation | \$ 35,000 |
| Screening, Brief Intervention and Referral to Treatment (SBIRT) Training for Rowan SOM Medical Students, Residents, Faculty and Community-Based Physicians | Coren, Joshua | NJ Department of Human Services | \$ 360,624 |
| Opioid Prescribing: Safe Practice, Changing Lives | Coren, Joshua | American Osteopathic Association | \$ 3,000 |
| Improving Patient Reach and Engagement Program for Diabetes Management (iPREP-DM) | Gupta, Adarsh | American Osteopathic Association | \$ 150,000 |
| PRO-109-HCP: Collection of Samples for Analytical Validation of a Hereditary Cancer Gene Sequencing Panel (Clinical Trial) | Hudrick, Robert | Progenity, Inc | \$ 5,000 |
| RADAR- PGx: Pharmacogenomic Test Assessment for Medication Management in the Advancement of Personalized Medicine | Hudrick, Robert | MD Global Inc. | \$ 1,050 |
| 2017 AHEC Program | Coren, Joshua | Health Resources and Services Administration (HRSA) | \$ 1,545,000 |
| Prevention of Opioid Misuse in Women: Office on Women's Health Prevention Awards (OWHPA) | Coren, Joshua | US Department of Human Services | \$ 300,000 |

Rehabilitation Medicine

| Title | Project Investigator | Sponsor | Requested Amount |
|---|----------------------|----------------------------------|------------------|
| The Effect of Music Meditation on Reducing Opioid Use in Patients with Chronic Non-Malignant Pain | Jermyn, Richard | American Osteopathic Association | \$ 145,617 |
| An Exploration of the Utilization of Listener Selected Music in Chronic Pain Management | Bailey, James | American Osteopathic Association | \$ 150,000 |
| The Effect of Music Meditation on Reducing Opioid Use in Patients with Chronic Non-Malignant Pain | Jermyn, Richard | American Osteopathic Association | \$ 144,062 |

Graduate Medical Education

| Title | Project Investigator | Sponsor | Requested Amount |
|------------------------|----------------------|----------------------------|------------------|
| St. Jude Medical Grant | Kaiser Smith, Joanne | St Jude Medical Foundation | \$ 50,600 |

School of Osteopathic Medicine Proposals Continued

Executive Summary

Molecular Biology

| Title | Project Investigator | Sponsor | Requested Amount |
|--|----------------------|------------------------------------|------------------|
| Origin of novel traits from redundant signal transduction pathways | Ellis, Ronald | National Science Foundation | \$ 902,649 |
| Lysine Methylation Control During Differentiation | Law, Michael | National Institutes of Health | \$ 483,000 |
| Systems approach to conserved stress-activated nuclear-mitochondria communication | Cooper, Katrina | National Science Foundation | \$ 1,314,571 |
| Defining the Requirement for Notch, Ikaros, and myc in T-cell Acute Lymphoblastic Leukemia | Demarest, Renee | New Jersey Health Foundation, Inc. | \$ 34,611 |
| Targeting Podoplanin to Prevent and Combat Melanoma | Goldberg, Gary | National Institutes of Health | \$ 483,000 |
| New Anticancer Synergies | Goldberg, Gary | New Jersey Health Foundation, Inc. | \$ 35,000 |
| The Next Generation of Epigenetic Drug Target Identification | Law, Michael | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Targeting Podoplanin to Prevent and Treat Oral Cancer | Goldberg, Gary | National Institutes of Health | \$ 2,012,500 |
| Mitochondrial Dynamics and Drug Sensitivity | Strich, Randy | National Institutes of Health | \$ 2,056,450 |
| The role of the Cdk8 module of the mediator complex in autophagy | Cooper, Katrina | National Institutes of Health | \$ 483,000 |
| Targeting podoplanin to prevent and combat melanoma | Goldberg, Gary | National Institutes of Health | \$ 483,000 |
| Targeting podoplanin to prevent and treat oral cancer | Goldberg, Gary | National Institutes of Health | \$ 483,000 |
| Lysine Methylation Controls During Differentiation | Law, Michael | American Cancer Society | \$ 792,000 |
| Manipulating Mitochondrial Dynamics in ALS | Strich, Randy | Boye Foundation | \$ 49,800 |

Pediatrics

| Title | Project Investigator | Sponsor | Requested Amount |
|---|----------------------|------------------------------------|------------------|
| Comprehensive Information About Children with Disabilities, Presented in a Well-developed Website | Kaari, Jacqueline | New Jersey Health Foundation, Inc. | \$ 34,800 |

Academic Affairs

| Title | Project Investigator | Sponsor | Requested Amount |
|-----------------------------|----------------------|---|------------------|
| Centers of Excellence (COE) | Boyd, Linda | Health Resources and Services Administration (HRSA) | \$ 3,500,000 |
| Summer PREP FY17 | Boyd, Linda | New Jersey Higher Education | \$ 79,394 |

During FY-2017, the Office of Sponsored Programs received grant awards totaling \$33.7M. These awards include grants and contracts from government, industry, and private sources. The Office of Corporate and Foundation Relations within University Advancement received an additional \$275k in grant funding from individuals, corporations, and foundations to support faculty scholarly and service activities.

FY-2017 Rowan University raised a total of \$34M for sponsored programs and projects, an increase of 20% in funds received from last year.

Dr. Shreekanth Mandayam
Vice President for Research

Total External Funds Raised

| Unit | Office of Sponsored Programs | University Advancement | Department |
|---|------------------------------|------------------------|---|
| Administration \$ 3,181,724 | \$ 1,860,762 | | Educational Opportunity Fund |
| | \$ 964,219 | \$ - | CHAMP/GEAR UP |
| | \$ 11,987 | | University Library Services |
| | \$ 60,582 | \$ - | VR Lab |
| | \$ - | \$ 34,174 | Strategic Enrollment |
| Communication and Creative Arts \$ 6,000 | \$ 250,000 | \$ - | International Center/ English Language Programs |
| | \$ - | \$ 6,000 | Art Gallery |
| Humanities and Social Sciences \$ 218,879 | \$ 122,500 | | Political Science & Economics |
| | \$ 48,576 | | Law and Justice |
| | \$ 47,803 | | History |
| Cooper Medical School \$ 1,541,905 | \$ 430,000 | | Dean's Office |
| | \$ 298,250 | | Biomedical Sciences |
| | \$ 11,665 | | Library |
| | \$ 636,626 | \$ 2,500 | Multicultural Affairs |
| Performing Arts \$ 33,700 | \$ 162,864 | | Emergency Medicine |
| | \$ - | \$ 8,700 | Dean's Office |
| Education \$ 1,217,585 | \$ - | \$ 25,000 | Music |
| | \$ 1,020 | \$ 16,980 | Dean's Office |
| | \$ 217,403 | | Educational Services and Leadership |
| | \$ 777,182 | | Center for Access, Success, and Equity |
| Earth and Environment \$ 707,247 | \$ 205,000 | \$ - | |
| | \$ - | \$ 50,000 | Dean's Office |
| | \$ 199,388 | \$ - | Geology |
| | \$ 392,859 | \$ 65,000 | Geography, Planning, and Sustainability |

School of Osteopathic Medicine Proposals Continued

| Cell Biology (continued) | | | |
|---|----------------------|---|------------------|
| Title | Project Investigator | Sponsor | Requested Amount |
| Transcription Initiation and Pausing in Bacteria | Borukhov, Sergei | University of California, Los Angeles | \$ 805,000 |
| Gene Therapy Targeting Oligodendroglia For White Matter Disorders | Leone, Paola | National Institutes of Health | \$ 2,367,150 |
| Regulation of Aging by PARP1 Mediated Changes in Nuclear Architecture | Markov, Dmitriy | Fox Chase Cancer Center Medical Group Inc | \$ 402,500 |
| A Randomized, Placebo-Controlled Study of Treatment with the Roflumilast on Safety, Cognition, Anxiety, Physiological and Biochemical Biomarkers of Fragile X | McBride, Sean | University of Pennsylvania | \$ 219,802 |
| Replication-transcription Switch in Mitochondria | Temiakov, Dmitry | National Institutes of Health | \$ 2,327,512 |
| Antimicrobial Mechanisms of Specialized Proresolving Mediators | Yin, Kingsley | National Institutes of Health | \$ 2,012,500 |
| Development of Treatment for Canavan Disease | Leone, Paola | Canavan Research Illinois | \$ 60,000 |
| Gene Therapy of Canavan Disease | Leone, Paola | Pfizer Inc. | \$ 354,809 |
| Translating Novel Treatments for Fragile X Syndrome from the Fly to the Mouse Model | McBride, Sean | FRAXA Research Foundation | \$ 45,000 |

| Surgery | | | |
|---|----------------------|---|------------------|
| Title | Project Investigator | Sponsor | Requested Amount |
| Generalization of a successful treatment trial with sulforaphane in autism in a NJ population: extension to other age groups, DSM-5 criteria of autism spectrum disorder and in female subjects with autism | Stein, Thomas | Rutgers, The State University of New Jersey | \$ 26,755 |
| The Gut and Autism: A Metabolomic Study | Stein, Thomas | The Governor's Council for Medical Research and Treatment of Autism | \$ 399,230 |
| The Gut and Autism: A Metabolomic Study | Stein, Thomas | National Institutes of Health | \$ 1,218,519 |

| OB/GYN | | | |
|--|----------------------|--------------|------------------|
| Title | Project Investigator | Sponsor | Requested Amount |
| A Phase 3 Study to Evaluate the Efficacy and Safety of Elagolix in Combination with Estradiol/ Norethindrone Acetate for the Management of Heavy Menstrual Bleeding Associated with Uterine Fibroids in Premenopausal Women (Clinical Trial) | Nguyen, Maria Bich | AbbVie, Inc. | \$ 598,873 |

School of Osteopathic Medicine Proposals Continued

Cell Biology

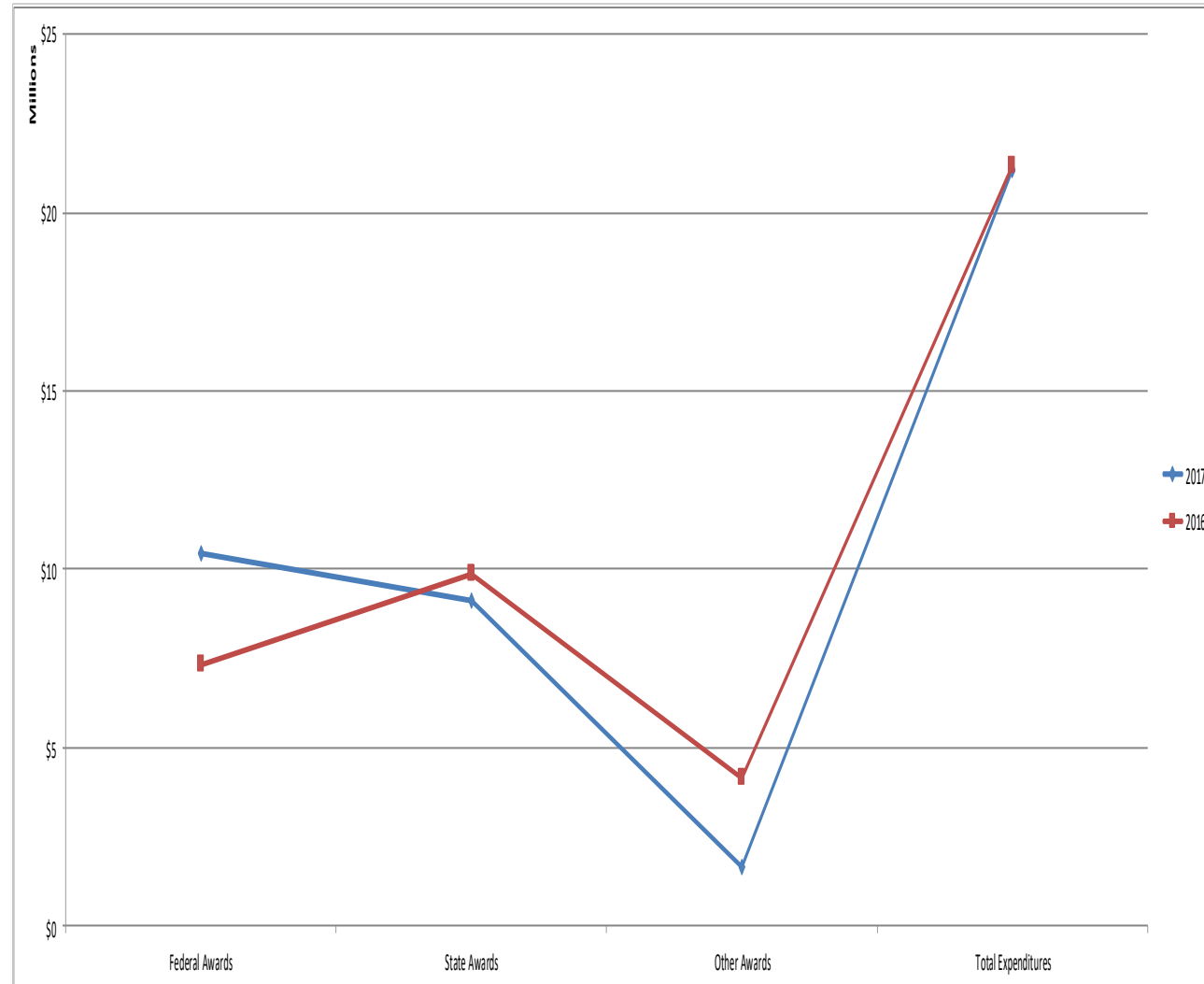
| Title | Project Investigator | Sponsor | Requested Amount |
|---|---------------------------|------------------------------------|------------------|
| Development of a serum biomarker-based approach to monitor opioid adherence and minimize substance misuse in chronic pain management | Venkataraman, Venkateswar | American Osteopathic Association | \$ 149,763 |
| Heterogeneous properties of LC efferents to modality-specific terminal fields | Waterhouse, Barry | National Institutes of Health | \$ 1,053,016 |
| Control of Expression of Mitochondrial Genes by Nuclear Genome-Encoded Proteins | Anikin, Mikhail | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Modulation of locus coeruleus discharge and synaptic transmission by the stress peptide corticotropin releasing factor | Chandler, Daniel | National Institutes of Health | \$ 425,670 |
| Modulation of locus coeruleus synaptic transmission and discharge by the stress peptide corticotropin releasing factor | Chandler, Daniel | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Therapeutic Targeting of Energetic Metabolism in Amyotrophic Lateral Sclerosis | Francis, Jeremy | New Jersey Health Foundation, Inc. | \$ 31,000 |
| Improvement of Experimental microRNA Target Identification Methods in Embryonic Stem Cells via Target Stabilization | Houbaviy, Hristo | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Gene Therapy Targeting Oligodendroglia Promotes Normal Myelination in a L eukodystrophy Model | Leone, Paola | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Genetic Control of Aging by Poly(ADP-ribosylation) in Drosophila Melanogaster | Markov, Dmitriy | National Science Foundation | \$ 937,460 |
| A Randomized Placebo Controlled Study of Metformin Safety and Effects on Cognition, Anxiety, Sleep and Biochemical Biomarkers in Fragile X Syndrome | McBride, Sean | University of Pennsylvania | \$ 2,700,402 |
| Identifying and testing the efficacy of novel treatments in autism models | McBride, Sean | NJ Department of Health | \$ 400,000 |
| Identifying and testing novel treatments in the fly and mouse models of Fragile X syndrome | McBride, Sean | NJ Department of Health | \$ 400,000 |
| A Randomized Placebo-Controlled Study of Metformin Safety and Effects on Cognition, Anxiety and Sleep in Fragile X syndrome | McBride, Sean | NJ Department of Health | \$ 400,000 |
| Targeting ribosome biogenesis as a new strategy to enhance cancer chemotherapy | Pestov, Dimitri | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Mechanism of human mitochondrial transcription antitermination | Temiaikov, Dmitry | New Jersey Health Foundation, Inc. | \$ 28,000 |
| S100B: THE HAND THAT LINKS AGING AND CIRCADIAN CLOCK | Venkataraman, Venkateswar | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Effect of DYT2-linked Mutations of HPCA on Calcium Signaling in the Neuro Musculoskeletal System | Venkataraman, Venkateswar | American Osteopathic Association | \$ 129,952 |
| Impact of Repetitive Mild Traumatic Brain Injury (TBI) on Attention and Catecholamine Efflux in Prefrontal Cortex | Waterhouse, Barry | NJ Department of Health | \$ 172,875 |

Total External Funds Raised

| | | | |
|--|----------------------|----------------------|---------------------------------------|
| | \$ - | \$ 35,000 | Dean's Office |
| | \$ 782,248 | | Biomedical Engineering |
| | \$ 683,314 | | Chemical Engineering |
| Engineering: South Jersey Technology Park / SJTP | \$ 7,036,699 | \$ 4,420,412 | Civil/Environmental Engineering |
| | \$ 344,435 | | Electrical/Computer Engineering |
| | \$ 203,321 | | ExEEd |
| | \$ 567,969 | | Mechanical Engineering |
| | \$ 65,000 | \$ 4,700 | Dean's Office |
| | \$ 71,166 | | Biomedical and Translational Sciences |
| Science and Mathematics/ Health Professions | \$ 1,815,996 | \$ 60,000 | Mathematics |
| | \$ 743,576 | | Chemistry & Biochemistry |
| | \$ - | \$ 6,851 | Computer Science |
| | \$ 619,437 | | Physics & Astronomy |
| | \$ 235,406 | \$ - | Psychology |
| | \$ - | \$ 9,860 | Health and Exercise Science |
| | \$ 4,065,678 | | CARES Institute |
| | \$ 2,252,161 | | Cell Biology |
| | \$ 2,647,643 | | NJ Institute for Successful Aging |
| | \$ 730,190 | | Obstetrics and Gynecology |
| | \$ 4,920 | | Rehabilitation Medicine |
| | \$ 310,368 | | Pathology |
| School of Osteopathic Medicine | \$ 18,295,913 | \$ 6,215,004 | Dean's Office |
| | \$ 105,533 | | Clinical Trials Management |
| | \$ 69,640 | | Internal Medicine |
| | \$ 1,417,000 | | Molecular Biology |
| | \$ 337,416 | | Developmental Disabilities |
| | \$ - | \$ 10,000 | Graduate Medicine |
| | \$ 130,360 | \$ - | Family Medicine |
| TOTAL | \$ 34,055,648 | \$ 33,780,883 | \$ 274,765 |

Research Expenditures

| | 2017 Expenditures | 2016 Expenditures | Comparison |
|---------------------------|-------------------|-------------------|-------------------|
| Federal Awards | \$ 10,446,280.00 | \$ 7,314,568.07 | \$ 3,131,711.93 |
| State Awards | \$ 9,094,755.00 | \$ 9,884,297.51 | \$ 789,542.51 |
| Other Awards | \$ 1,639,032.43 | \$ 4,131,009.64 | \$ (2,491,977.21) |
| Total Expenditures | \$ 21,180,067.43 | \$ 21,329,875.22 | \$ (149,807.79) |



School of Osteopathic Medicine Awards & Proposals

Family Medicine

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|----------------------------------|----------------|------------------|
| Progenity PRO-109-HCP (Clinical Trial) | Hudrick, Robert | Progeny | \$ 3,560 | \$ - |
| Screening, Brief Intervention and Referral to Treatment (SBIRT) Training for Rowan SOM Medical Students, Residents, Faculty and Community-Based Physicians | Coren, Joshua | NJ Department of Human Services | \$ 123,800 | \$ 9,170 |
| Opioid Prescribing: Safe Practice, Changing Lives | Coren, Joshua | American Osteopathic Association | \$ 3,000 | \$ - |

Proposals

CARES Institute

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|---------------------------|---|------------------|
| Improving Practice in Community-based Settings | Deblinger-Sosland, Esther | University of Washington | \$ 17,314 |
| Changing the Paradigm: CSA as a Preventable Public Health Problem | Deblinger-Sosland, Esther | Johns Hopkins Bloomberg School of Public Health | \$ 113,027 |
| Pragmatic Quality Indicator Package (P-QIP) for Measuring EBT Delivery in Community Practice | Deblinger-Sosland, Esther | The Medical University of South Carolina | \$ 120,414 |
| CARES DCP&P FY17 Contract | Finkel, Martin | NJ Department of Children and Families | \$ 4,108,492 |

NJ Institute for Successful Aging

| Title | Project Investigator | Sponsor | Requested Amount |
|--|----------------------|-----------------------------------|------------------|
| The Effect of OMT and a Novel Exercise Program for Falls Prevention in the Elderly | Noll, Donald | American Osteopathic Association | \$ 137,221 |
| Successful Aging and Pets: Longitudinal Relationships & Explanatory Mechanisms | Pruchno, Rachel | Gerontological Society Of America | \$ 50,000 |

Pathology

| Title | Project Investigator | Sponsor | Requested Amount |
|---|----------------------|-------------------------|------------------|
| A Comprehensive Center for Huntington Disease | Mccormack, Michael | NJ Department of Health | \$ 310,382 |

Internal Medicine

| Title | Project Investigator | Sponsor | Requested Amount |
|--|----------------------|---|------------------|
| CLR_09_21: A Placebo-Controlled Randomized Withdrawal Evaluation of the Efficacy and Safety of Baclofen ER Capsules (GRS) in Subjects with Spasticity Due to Multiple Sclerosis (Clinical Trial) | Barone, Donald | SUN Pharma Advanced Research Company Ltd. | \$ 128,947 |

School of Osteopathic Medicine Awards Continued

Graduate Medical Education

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-----------------------------|----------------|------------------|
| 2017-2018 SOM Cardiovascular Fellowship Program | Kaiser Smith, Joanne | St. Jude Medical Foundation | \$ 10,000 | \$ - |

Molecular Biology

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|------------------------------------|----------------|------------------|
| Translational Control of Mitochondrial Gene Expression | Henry, Michael | National Institutes of Health | \$ 483,000 | \$ 183,000 |
| Excellence in Research Award | Strich, Randy | New Jersey Health Foundation, Inc. | \$ 1,000 | \$ - |
| Stress regulated mitochondrial dynamics | Strich, Randy | National Institutes of Health | \$ 286,200 | \$ 106,200 |
| Regulation of the Gli protein TRA-1 by co-factors | Ellis, Ronald | National Institutes of Health | \$ 305,900 | \$ 115,900 |
| Dissecting the origins of a complex reproductive trait: nematode self fertility | Ellis, Ronald | National Institutes of Health | \$ 305,900 | \$ 115,900 |
| New Anticancer Synergies | Goldberg, Gary | New Jersey Health Foundation, Inc. | \$ 35,000 | \$ - |

Rehabilitation Medicine

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|-------------------------------|------------------------|-----------------------|----------------|------------------|
| Dysport 170 (Clinical Trial) | Jermyn, Richard | Ipsen Pharmaceuticals | \$ 195 | \$ - |
| DS5565-AE312 (Clinical Trial) | Jermyn, Richard | Daiichi Sankyo | \$ 4,725 | \$ - |

Internal Medicine

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| Acorda DALF-PS-1016 (Clinical Trial) | Barone, Donald | Acorda Pharmaceuticals | \$ 21,599 | \$ - |
| Acorda DALF-PS-1029 (Clinical Trial) | Barone, Donald | Acorda Pharmaceuticals | \$ 16,940 | |
| BETACONNECT 17942 (Clinical Trial) | Barone, Donald | Bayer Pharmaceuticals | \$ 3,942 | \$ - |
| Redefine EMR 200136-573 (Clinical Trial) | Barone, Donald | EMD Serono | \$ 4,642 | \$ - |
| Baclofen CLK_09_21 (Clinical Trial) | Barone, Donald | Sun Pharma Advanced Research Company Ltd. | \$ 21,967 | \$ - |
| Premiere EMR700568-012 (Clinical Trial) | Barone, Donald | EMD Serono | \$ 550 | \$ - |

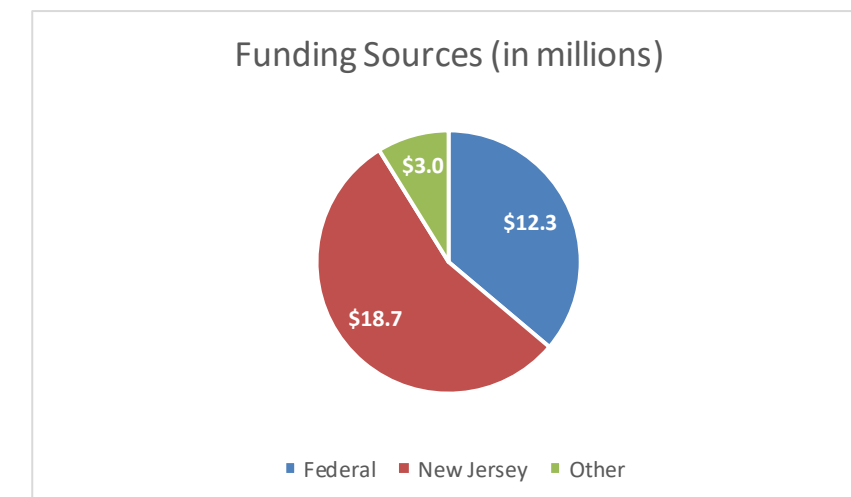
Developmental Disabilities

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|---------------------------------|----------------|------------------|
| Psychiatric Services for Dually Diagnosed Persons | Kane, Pamela | NJ Department of Human Services | \$ 337,416 | \$ - |

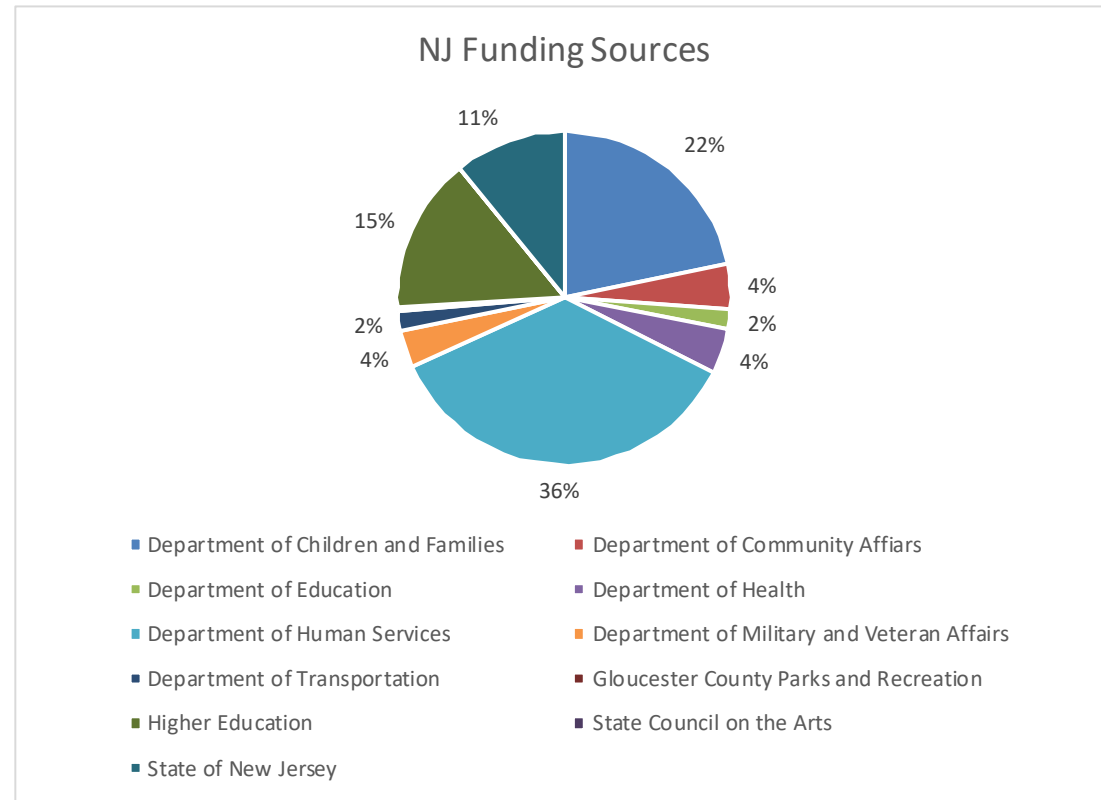
Total Grant Activity

| Units | Awards | | Proposals | |
|--|---------------------|---------------------|----------------------|----------------------|
| | FY17 | FY16 | FY17 | FY16 |
| Administration | 13 \$3,181,724 | 14 \$3,514,738 | 8 \$7,025,010 | 16 \$3,258,930 |
| Rohrer College of Business | 0 \$0 | 1 \$7,500 | 0 \$0 | 3 \$24,925 |
| College of Communication & Creative Arts | 1 \$6,000 | 1 \$13,018 | 3 \$37,000 | 7 \$359,812 |
| College of Education | 11 \$1,217,585 | 9 \$1,273,693 | 33 \$15,595,250 | 27 \$15,187,721 |
| School of Earth and Environment | 9 \$707,247 | 154,982 \$0 | 16 \$2,533,402 | 1 \$32,063 |
| Henry M. Rowan College of Engineering / SJTP | 42 \$7,036,699 | 33 \$5,651,343 | 100 \$34,490,270 | 94 \$35,438,476 |
| College of Science & Mathematics / SHP | 24 \$1,815,996 | 26 \$3,090,360 | 92 \$20,164,702 | 86 \$14,159,664 |
| College of Humanities and Social Sciences | 5 \$218,879 | 8 \$1,014,217 | 4 \$876,515 | 16 \$2,659,551 |
| School of Osteopathic Medicine | 41 \$18,295,913 | 27 \$10,791,743 | 68 \$39,013,313 | 81 \$58,691,943 |
| Cooper Medical School of Rowan University | 12 \$1,541,905 | 9 \$2,888,727 | 20 \$5,879,435 | 24 \$6,663,201 |
| College of Performing Arts | 2 \$33,700 | 1 \$5,000 | 6 \$155,605 | 3 \$39,500 |
| Total Number | 160 | 129 | 350 | 358 |
| Total Amount | \$34,055,648 | \$28,250,339 | \$125,770,502 | \$136,515,786 |

All Funding Sources



New Jersey Sponsored Grant Activity



| New Jersey Sponsors | Number | Amount |
|--|-----------|----------------------|
| Department of Children & Families | 1 | \$ 4,048,364 |
| Department of Community Affairs | 1 | \$ 800,052 |
| Department of Education | 2 | \$ 384,402 |
| Department of Health | 3 | \$ 825,246 |
| Department of Human Services | 3 | \$ 6,676,220 |
| Department of Military and Veteran Affairs | 5 | \$ 655,791 |
| Department of Transportation | 4 | \$ 377,886 |
| Gloucester County Parks & Recreation | 1 | \$ 47,803 |
| Higher Education | 8 | \$ 2,824,981 |
| NJ State Council on the Arts | 2 | \$ 14,700 |
| State of New Jersey | 1 | \$ 2,000,000 |
| Total | 31 | \$ 18,655,445 |

School of Osteopathic Medicine Awards Continued

NJ Institute for Successful Aging

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| Excellence in Research Award | Ginsberg, Terrie | New Jersey Health Foundation, Inc. | \$ 1,000 | \$ - |
| MRI, Genetic and Cognitive Precursors of AD and Dementia | Libon, David | National Institutes of Health | \$ 30,262 | \$ 11,466 |
| MRI, Genetic and Cognitive Precursors of AD and Dementia | Libon, David | National Institutes of Health | \$ 9,568 | \$ 3,625 |
| New Jersey Area Health Education Center (NJ AHEC) | Perweiler, Elyse | US Department of Health & Human Services | \$ 316,314 | \$ - |
| Effects of Hurricane Sandy on Functional Limitation Trajectories of Older People | Pruchno, Rachel | National Institutes of Health | \$ 130,000 | \$ 49,254 |
| Editorial Office Stipend GSA | Pruchno, Rachel | Gerontological Society Of America | \$ 58,382 | \$ - |
| Effects of Hurricane Sandy on Functional Limitation Trajectories of Older People | Pruchno, Rachel | National Institutes of Health | \$ 56,660 | \$ 18,704 |
| NJ Geriatric Workforce Enhancement Program | Chopra, Anita | Health Resources and Services Administration (HRSA) | \$ 846,848 | \$ 43,326 |
| Blood-based biomarkers for early-stage Alzheimer's disease | Nagele, Robert | National Institutes of Health | \$ 688,674 | \$ 259,671 |
| Effects of Hurricane Sandy on Functional Limitation Trajectories of Older People | Pruchno, Rachel | National Institutes of Health | \$ 509,935 | \$ 168,327 |

OBGYN

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-------------------------------|----------------|------------------|
| Fatty Acids-Mediated Inflammation and Ethnic Disparity in Pregnancy Outcome | Chen, Xinhua | National Institutes of Health | \$ 397,000 | \$ 147,000 |
| M12-671 (Clinical Trial) | Williams, Keith | AbbVie Inc. | \$ 9,990 | \$ - |
| Fatty Acids-Mediated Inflammation and Ethnic Disparity in Pregnancy Outcome | Chen, Xinhua | National Institutes of Health | \$ 286,200 | \$ 106,200 |
| AbbVie M12-817 (Clinical Trial) | Nguyen, Maria Bich | AbbVie, Inc. | \$ 5,200 | \$ - |
| Fatty Acids-Mediated Inflammation and Ethnic Disparity in Pregnancy Outcome | Chen, Xinhua | National Institutes of Health | \$ 31,800 | \$ 11,800 |

Pathology

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-------------------------|----------------|------------------|
| A Comprehensive Center for Huntington Disease | Mccormack, Michael | NJ Department of Health | \$ 310,368 | \$ 14,779 |

School of Osteopathic Medicine Awards Continued

Cell Biology

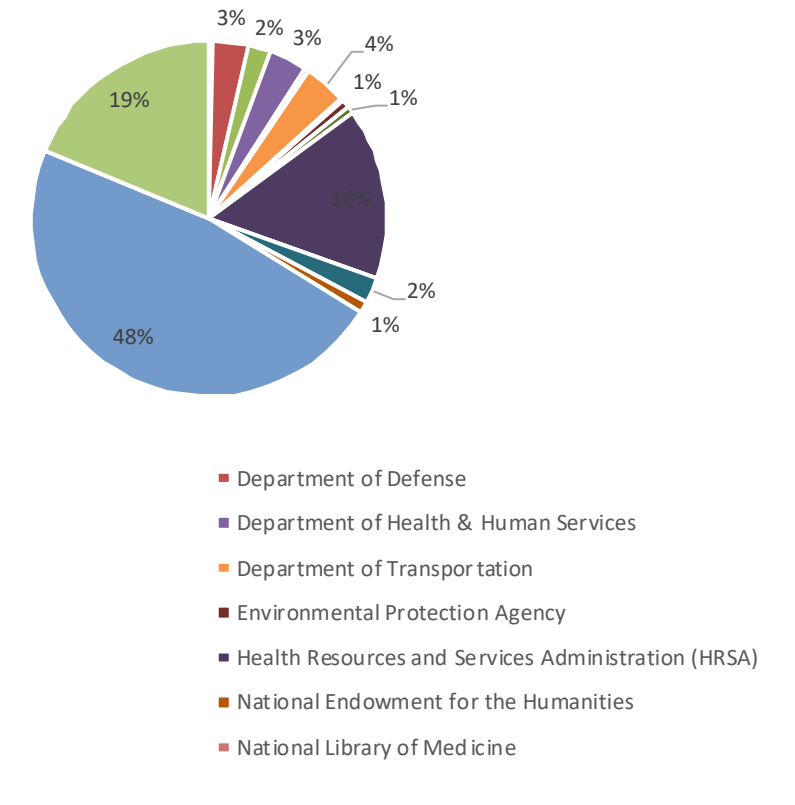
| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|---------------------------|------------------------------------|----------------|------------------|
| Drug Development of Gene Therapy for Canavan Disease | Leone, Paola | Provectra, Inc. | \$ 145,000 | \$ - |
| Translational rescue mechanisms in eukaryotes | Shcherbik, Natalia | National Institutes of Health | \$ 314,025 | \$ 116,525 |
| Development of a serum biomarker-based approach to monitor opioid adherence and minimize substance misuse in chronic pain management. | Venkataraman, Venkateswar | American Osteopathic Association | \$ 149,763 | \$ - |
| 2016 Summer Student Research Program (SMRFP) | Hock, Carl | New Jersey Health Foundation, Inc. | \$ 25,000 | \$ - |
| Translating Novel Treatments for Fragile X Syndrome from the Fly to the Mouse Model | McBride, Sean | FRAXA Research Foundation | \$ 45,000 | \$ - |
| Impact of Repetitive Mild Traumatic Brain Injury (TBI) on Attention and Catecholamine Efflux in Prefrontal Cortex | Waterhouse, Barry | NJ Department of Health | \$ 85,187 | \$ 10,187 |
| Mechanisms of Transcription Initiation in Mitochondria | Temiakov, Dmitry | National Institutes of Health | \$ 30,210 | \$ 11,210 |
| Replication-transcription Switch in Mitochondria | Temiakov, Dmitry | National Institutes of Health | \$ 355,900 | \$ 115,900 |
| Heterogeneous properties of LC efferents to modality-specific terminal fields | Waterhouse, Barry | National Institutes of Health | \$ 388,541 | \$ 147,211 |
| Mechanisms of Transcription Initiation in Mitochondria | Temiakov, Dmitry | National Institutes of Health | \$ 271,890 | \$ 100,890 |
| 2017 RowanSOM Summer Student Research Program (SMRFP) | Hock, Carl | New Jersey Health Foundation, Inc. | \$ 25,000 | \$ - |
| Development of Treatment for Canavan Disease | Leone, Paola | Canavan Research Illinois | \$ 60,000 | \$ - |
| Heterogeneous properties of LC efferents to modality-specific terminal fields | Waterhouse, Barry | National Institutes of Health | \$ 356,645 | \$ 131,646 |

Clinical Trials Management

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-------------------------|----------------|------------------|
| An Extension study to evaluate the long term safety, tolerability and efficacy of dalfampridine extended-release tablets for the treatment of chronic post-ischemic Stroke walking deficits in subjects who participated in the DALFPS-1016 study (Milestone) | Barone, Donald | Accorda Pharmaceuticals | \$ 105,533 | \$ 14,203 |

Federally Sponsored Grant Activity

Federal Funding Sources



| Federal Sponsors | Number | Amount |
|---|-----------|----------------------|
| Department of the Army | 1 | \$ 50,000 |
| Department of Defense | 3 | \$ 389,612 |
| Department of Education | 1 | \$ 250,000 |
| Department of Health & Human Services | 2 | \$ 428,294 |
| Department of Justice | 1 | \$ 48,576 |
| Department of Transportation | 5 | \$ 447,484 |
| Department of Veterans Affairs | 3 | \$ 35,420 |
| Environmental Protection Agency | 2 | \$ 98,336 |
| Federal Aviation Administration | 2 | \$ 80,087 |
| Health Resources and Services Administration | 3 | \$ 1,913,474 |
| National Aeronautics and Space Administration | 5 | \$ 304,388 |
| National Endowment for the Humanities | 2 | \$ 105,217 |
| National Institutes of Health | 31 | \$ 5,849,160 |
| National Library of Medicine | 1 | \$ 11,665 |
| National Science Foundation | 7 | \$ 2,308,088 |
| Total | 69 | \$ 12,319,801 |

Other Activity

| Other | Number | Amount |
|--|--------|------------|
| AbbVie Inc. | CT | \$ 15,190 |
| Acorda Pharmaceuticals | 1 | \$ 144,072 |
| Advanced Infrastructure Design | 1 | \$ 3,000 |
| American Association of University Women | 1 | \$ 4,700 |
| American Heart Association | 1 | \$ 73,150 |
| American Osteopathic Association | 2 | \$ 152,763 |
| American Water | 1 | \$ 32,553 |
| Atlantic City Electric | 1 | \$ 5,000 |
| AT&T Foundation | 1 | \$ 25,000 |
| Bayer Pharmaceuticals | CT | \$ 3,942 |
| Bringing Theory to Practice | 1 | \$ 5,000 |
| Bristol-Myers Squibb | 2 | \$ 60,000 |
| Canacan Research Illinois | 1 | \$ 60,000 |
| COVANTA | 1 | \$ 90,000 |
| Daiichi Sankyo | CT | \$ 4,725 |
| Dolfinger-McMahon Foundation | 1 | \$ 2,500 |
| EMD Serono | CT | \$ 5,192 |
| Forman S. Acton Educational Foundation | 1 | \$ 194,743 |
| FRAXA Research Foundation | 1 | \$ 45,000 |
| Geraldine R. Dodge Foundation | 2 | \$ 69,000 |
| Gerontological Society of America | 1 | \$ 58,382 |
| Google Inc. | 1 | \$ 3,851 |
| Guava Medicine LLC | 1 | \$ 500,000 |
| Helios LLC | 1 | \$ 3,000 |
| Hungerford and Terry, Inc. | 1 | \$ 12,707 |

School of Osteopathic Medicine Awards & Proposals

| School of Osteopathic Medicine | | | | | |
|-----------------------------------|-----------|----------------------|-----------|---------------------|----------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | - | - | 1 | \$ 565,000 | \$ 6,215,004 |
| CARES Institute | 4 | \$ 4,359,247 | 2 | \$ 6,560 | \$ 4,065,678 |
| Cell Biology | 27 | \$ 15,632,411 | 13 | \$ 633,569 | \$ 2,252,161 |
| NJ Institute for Successful Aging | 2 | \$ 187,221 | 10 | \$ 554,373 | \$ 2,647,643 |
| Obstetrics & Gynecology | 1 | \$ 598,873 | 3 | \$ 265,000 | \$ 730,190 |
| Rehabilitation Medicine | 3 | \$ 439,679 | - | \$ - | \$ 4,920 |
| Clinical Trials Management | - | \$ - | 1 | \$ 14,203 | \$ 105,533 |
| Pathology | 1 | \$ 310,382 | 1 | \$ 14,779 | \$ 310,368 |
| Surgery | 3 | \$ 1,644,504 | - | \$ - | \$ - |
| Internal Medicine | 1 | \$ 128,947 | - | \$ - | \$ 69,640 |
| Molecular Biology | 14 | \$ 9,647,581 | 6 | \$ 521,000 | \$ 1,417,000 |
| Pediatrics | 1 | \$ 34,800 | - | \$ - | \$ - |
| Academic Affairs | 2 | \$ 3,579,394 | - | \$ - | \$ - |
| Developmental Disabilities | - | \$ - | 1 | \$ - | \$ 337,416 |
| Graduate Medical Education | 1 | \$ 50,600 | 1 | \$ - | \$ 10,000 |
| Family Medicine | 8 | \$ 2,399,674 | 2 | \$ 9,170 | \$ 130,360 |
| Total | 68 | \$ 39,013,313 | 41 | \$ 2,583,654 | \$ 18,295,913 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---------------------------------|----------------|------------------|
| The New Jersey Family Care Integrated Eligibility System Upgrade | DeRisio, Vincent | NJ Department of Human Services | \$ 6,215,004 | \$ 565,000 |

CARES Institute

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|---------------------------|---|----------------|------------------|
| Improving Practice in Community-based Settings | Deblinger-Sosland, Esther | University of Washington (Prime: National Institutes of Health) | \$ 17,314 | \$ 6,560 |
| CARES DCP&P FY17 Contract | Finkel, Martin | NJ Department of Children and Families | \$ 4,048,364 | \$ - |

Cooper Medical School of Rowan University Proposals Continued

Biomedical Sciences

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|--|------------------|
| Inflamed lymphoid tissues and B cell function | Bottaro, Andrea | National Institutes of Health | \$ 482,623 |
| Genetic Mouse Model of Adult Onset Epilepsy | Ferraro, Thomas | Thomas Jefferson University | \$ 1,691,543 |
| Clinical and Genetic Study of Prescription Opioid Addiction | Ferraro, Thomas | Geisinger Medical Center | \$ 106,352 |
| 3-dimensional human lymphoid tissue culture technologies | Bottaro, Andrea | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Clinical and Genetic Study of Prescription Opioid Addiction | Ferraro, Thomas | Geisinger Medical Center | \$ 106,352 |
| Mechanisms of nociceptor hyperexcitability during chronic inflammation | O'Leary, Michael | National Institutes of Health | \$ 161,000 |
| A novel therapeutic invention for the treatment of refractory and relapsed Multiple Myeloma patients | Pandey, Manoj | Kimmel Foundation | \$ 199,940 |
| Targeting of myeloma stem like cells by a novel molecule for the treatment of relapsed and refractory patients | Pandey, Manoj | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Designing an evidence-based algorithm for eradication of Helicobacter pylori | Phadtare, Sangita | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Development of a biomarker assay to Predict calcium pyrophosphate deposition in patients with osteoarthritis | Williams, Charlene | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Genetic Mouse Model of Adult Onset Epilepsy | Ferraro, Thomas | Thomas Jefferson University | \$ 1,691,543 |
| Development of novel inhibitor of Bruton's tyrosine kinase for the treatment of refractory and relapsed myeloma | Pandey, Manoj | Leukemia Research Foundation | \$ 100,000 |
| Development of novel inhibitor of Bruton's tyrosine kinase for the treatment of refractory myeloma | Pandey, Manoj | Leukemia Lymphoma Society | \$ 599,960 |
| Incentive structure and student participation in active learning strategies in medical school | Lopez, Osvaldo | International Association of Medical Science Educators - IAMSE | \$ 4,995 |
| Myo/Nog cells in sarcomas and tissue fibrosis | Behling, Kathryn | The Cooper Foundation | \$ 179,345 |

Other Activity

| | | |
|--|-----------|---------------------|
| INOLEX | 2 | \$ 224,659 |
| International Association of Medical Science Educators | 1 | \$ 4,995 |
| Ipsen Pharmaceuticals | CT | \$ 195 |
| Johnson Matthey | 1 | \$ 32,000 |
| The Leon and Tony Cooperman Family Foundation | 1 | \$ 34,174 |
| Les Paul Foundation | 1 | \$ 25,000 |
| Library Link NJ | 1 | \$ 5,987 |
| National Association of School Psychologists | 1 | \$ 22,660 |
| National Center for Women Information Technology | 1 | \$ 3,000 |
| National Collegiate Athletic Association | 1 | \$ 9,860 |
| National Geographic Society | 1 | \$ 27,500 |
| New Jersey Health Foundation, Inc. | 10 | \$ 251,000 |
| Princeton Security Technologies, LLC | 1 | \$ 14,269 |
| Progenity, Inc. | CT | \$ 3,560 |
| Provectra, Inc. | 1 | \$ 145,000 |
| PSE&G | 1 | \$ 30,000 |
| Spencer Foundation | 1 | \$ 29,371 |
| St. Jude Medical Foundation | 1 | \$ 10,000 |
| Sun Pharma Advanced Research Company Ltd. | CT | \$ 21,967 |
| Syrsa Corporation | 1 | \$ 100,000 |
| TD Charitable Foundation | 1 | \$ 25,000 |
| The Cooper Foundation | 2 | \$ 272,543 |
| The Woodrow Wilson National Fellowship Foundation | 3 | \$ 39,738 |
| Turnasure LLC | 1 | \$ 3,288 |
| UC California Breast Cancer Research Program | 1 | \$ 71,166 |
| University City Science Center | 1 | \$ 100,000 |
| TOTAL | 60 | \$ 3,080,402 |

*CT = Clinical Trial

Quarterly Comparison Data

| Comparison of FY17 with FY16 | PROPOSALS | | AWARDS | |
|---------------------------------|------------|-----------------------|------------|----------------------|
| | # | Amount | # | Amount |
| 17 First Quarter | 65 | \$ 33,818,470 | 42 | \$ 5,059,935 |
| 16 First Quarter | 64 | \$ 25,584,602 | 23 | \$ 3,333,784 |
| 17 Second Quarter | 114 | \$ 29,210,303 | 28 | \$ 6,156,317 |
| 16 Second Quarter | 126 | \$ 40,062,745 | 23 | \$ 3,643,977 |
| 17 Third Quarter | 98 | \$ 36,264,030 | 37 | \$ 4,430,280 |
| 16 Third Quarter | 78 | \$ 40,165,824 | 35 | \$ 7,946,488 |
| 17 Fourth Quarter | 73 | \$ 26,477,699 | 53 | \$ 18,409,117 |
| 16 Fourth Quarter | 90 | \$ 30,702,615 | 48 | \$ 13,326,090 |
| Total: Fiscal Year 2017 | 350 | \$ 125,770,502 | 160 | \$ 34,055,649 |
| Total: Fiscal Year 2016 | 358 | \$ 136,515,786 | 129 | \$ 28,250,339 |

Proposals: -8 **\$ (10,745,284)**

Awards: +31 **\$ 5,805,310**

Cooper Medical School of Rowan University Awards & Proposals

Biomedical Sciences

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|---|----------------|------------------|
| ANK-dependent ATP efflux causes calcium pyrophosphate deposition in cartilage | Williams, Charlene | Medical College of Wisconsin (Prime: U.S. Dept. of Veteran Affairs) | \$ 8,000 | \$ - |
| ANK-dependent ATP efflux causes calcium pyrophosphate deposition in cartilage | Williams, Charlene | Medical College of Wisconsin (Prime: U.S. Dept. of Veteran Affairs) | \$ 5,420 | \$ - |
| Temporal Lobe Epilepsy and Retrotransposons | Ferraro, Thomas | University of Pennsylvania (Prime: National Institutes of Health) | \$ 43,490 | \$ 16,478 |
| Incentive structure and student participation in active learning strategies in medical school | Lopez, Osvaldo | International Association of Medical Science Educators | \$ 4,995 | \$ - |
| Myo/Nog cells in sarcomas and tissue fibrosis | Behling, Kathryn | The Cooper Foundation | \$ 179,345 | \$ - |
| Designing an evidence-based algorithm for eradication of Helicobacter pylori | Phadtare, Sangita | New Jersey Health Foundation, Inc. | \$ 35,000 | \$ - |
| ANK-dependent ATP efflux causes calcium pyrophosphate deposition in cartilage | Williams, Charlene | Medical College of Wisconsin (Prime: U.S. Dept. of Veteran Affairs) | \$ 22,000 | \$ - |

Proposals

Dean's Office

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|---|------------------|
| Association between estimated left ventricular function and inferior vena cava distensibility on focused cardiac ultrasound examination and mean arterial pressure after cardiac arrest. | Roberts, Brian | Emergency Medical Foundation | \$ 5,000 |
| PCTE Supplemental | Reboli, Annette | Health Resources and Services Administration (HRSA) | \$ 80,000 |

Multicultural Affairs

| Title | Principal Investigator | Sponsor | Requested Amount |
|---------------------------------------|----------------------------|--------------------------------|------------------|
| Partnerships to Achieve Health Equity | Mitchell-Williams, Jocelyn | Nemours | \$ 119,108 |
| JUMP Higher | Mitchell-Williams, Jocelyn | Robert Wood Johnson Foundation | \$ 199,865 |

Library

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|-----------------------------------|------------------|
| Using BLE Technology to Communicate Information to Library Patrons | Whitfield, Sharon | U.S. National Library of Medicine | \$ 11,809 |

Cooper Medical School of Rowan University Awards & Proposals

| Cooper Medical School of Rowan University | | | | | |
|---|-----------|--------------------|-----------|-------------------|---------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | 2 | \$ 85,000 | 1 | \$ 25,926 | \$ 430,000 |
| Biomedical Sciences | 15 | \$5,463,653 | 7 | \$ 16,478 | \$ 298,250 |
| Multicultural Affairs | 2 | \$ 318,973 | 2 | \$ 45,777 | \$ 639,126 |
| Emergency Medicine | - | \$ - | 1 | \$ 12,064 | \$ 162,864 |
| Library | 1 | \$ 11,809 | 1 | \$ 4,420 | \$ 11,665 |
| Total | 20 | \$5,879,435 | 12 | \$ 104,665 | \$ 1,541,905 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| Educating future primary care providers for transforming health care systems | Reboli, Annette | Health Resources and Services Administration (HRSA) | \$ 430,000 | \$ 25,926 |

Multicultural Affairs

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--------------------------------------|----------------------------|---|----------------|------------------|
| Health Careers Opportunity Program | Mitchell-Williams, Jocelyn | Health Resources and Services Administration (HRSA) | \$ 636,626 | \$ 45,777 |
| Junior Urban Medical Pioneers (JUMP) | Mitchell-Williams, Jocelyn | Dolfinger-McMahon Foundation | \$ 2,500 | \$ - |

Emergency Medicine

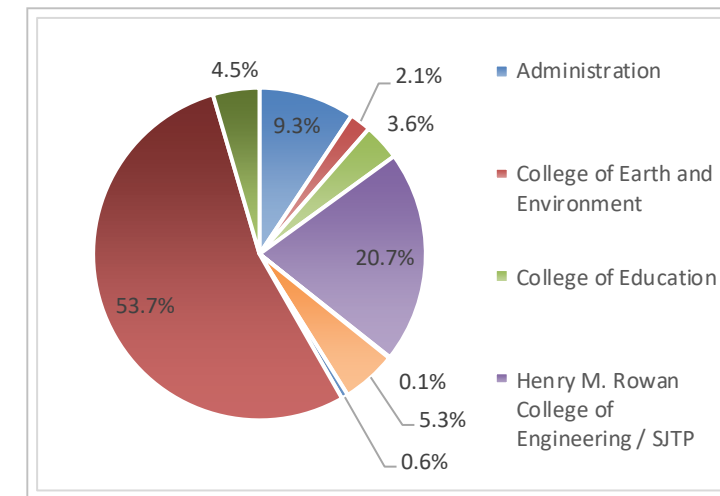
| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|-------------------------------|----------------|------------------|
| Post resuscitation PaCO2 and neurological outcome after cardiac arrest | Roberts, Brian | National Institutes of Health | \$ 162,864 | \$ 12,064 |

Library

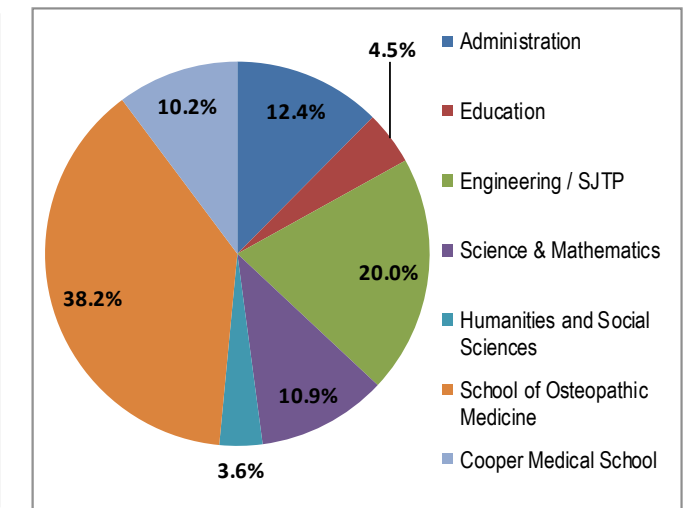
| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|-----------------------------------|----------------|------------------|
| Using BLE Technology to Communicate Information to Library Patrons | Whitfield, Sharon | U.S. National Library of Medicine | \$ 11,665 | \$ 4,420 |

Unit Comparison Data

FY 17 Percentage of Awards by Unit



FY 16 Percentage of Awards by Unit



| Units | Percentage of Total Award \$ | | Percentage of Total Proposal # | |
|--|------------------------------|-------------|--------------------------------|-------------|
| | FY17 | FY16 | FY17 | FY16 |
| Administration | 9.3% | 12.4% | 2.3% | 4.5% |
| Rohrer College of Business | 0.0% | 0.0% | 0.0% | 0.8% |
| College of Communication & Creative Arts | 0.0% | 0.0% | 0.9% | 2.0% |
| College of Earth and Environment | 2.1% | 0.0% | 4.6% | 0.3% |
| College of Education | 3.6% | 4.5% | 9.4% | 7.5% |
| Henry M. Rowan College of Engineering / SJTP | 20.7% | 20.0% | 28.6% | 26.3% |
| College of Performing Arts | 0.1% | 0.0% | 1.7% | 0.8% |
| College of Science & Mathematics | 5.3% | 10.9% | 26.3% | 24.0% |
| College of Humanities and Social Sciences | 0.6% | 3.6% | 1.1% | 4.5% |
| School of Osteopathic Medicine | 53.7% | 38.2% | 19.4% | 22.6% |
| Cooper Medical School of Rowan University | 4.5% | 10.2% | 5.7% | 6.7% |
| Total | 100% | 100% | 100% | 100% |

Unit Comparison Data

| Units | Awards | | Proposals | |
|--|---------------------|---------------------|----------------------|----------------------|
| | FY17 | FY16 | FY17 | FY16 |
| Administration | 13 \$3,181,724 | 14 \$3,514,738 | 8 \$7,025,010 | 16 \$3,258,930 |
| Rohrer College of Business | 0 \$0 | 1 \$7,500 | 0 \$0 | 3 \$24,925 |
| College of Communication & Creative Arts | 1 \$6,000 | 1 \$13,018 | 3 \$37,000 | 7 \$359,812 |
| College of Education | 11 \$1,217,585 | 9 \$1,273,693 | 33 \$15,595,250 | 27 \$15,187,721 |
| School of Earth and Environment | 9 \$707,247 | 154,982 \$0 | 16 \$2,533,402 | 1 \$32,063 |
| Henry M. Rowan College of Engineering / SJTP | 42 \$7,036,699 | 33 \$5,651,343 | 100 \$34,490,270 | 94 \$35,438,476 |
| College of Science & Mathematics / SHP | 24 \$1,815,996 | 26 \$3,090,360 | 92 \$20,164,702 | 86 \$14,159,664 |
| College of Humanities and Social Sciences | 5 \$218,879 | 8 \$1,014,217 | 4 \$876,515 | 16 \$2,659,551 |
| School of Osteopathic Medicine | 41 \$18,295,913 | 27 \$10,791,743 | 68 \$39,013,313 | 81 \$58,691,943 |
| Cooper Medical School of Rowan University | 12 \$1,541,905 | 9 \$2,888,727 | 20 \$5,879,435 | 24 \$6,663,201 |
| College of Performing Arts | 2 \$33,700 | 1 \$5,000 | 6 \$155,605 | 3 \$39,500 |
| Total Number | 160 | 129 | 350 | 358 |
| Total Amount | \$34,055,648 | \$28,250,339 | \$125,770,502 | \$136,515,786 |

College of Science & Mathematics Proposals Continued

Psychology (continued)

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|-------------------------------|------------------|
| Videogame-based contingency management for smoking cessation | Raiff, Bethany | National Institutes of Health | \$ 541,954 |
| NHLBI Research Supplement to Promote Diversity in Health-Related Research | Greeson, Jeffrey | National Institutes of Health | \$ 123,988 |
| Homing Pigeons as an Innovative Model for Age-Related Spatial Deficits | Hough, Gerald | National Institutes of Health | \$ 366,525 |
| Trauma-informed Gaming to Improve Risky Decision-Making in Black Adolescents | Joppa, Meredith | Drexel University | \$ 19,977 |
| Predicting AOD Relapse and Treatment Completion from Social Media Use | Kirby, Kimberly | University of Pennsylvania | \$ 18,789 |
| Mechanisms of Change for Smoking Cessation in Schizophrenia using Mobile CM + ACT | Raiff, Bethany | National Institutes of Health | \$ 1,098,386 |

Health & Exercise Science

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|--|------------------|
| A Systems-level Platform for Mitigating Antimicrobial Resistance Food Preservation Processes | Jia, Qian | U.S. Dept. of Agriculture | \$ 82,666 |
| Simultaneous Assessment of Various Motor Symptoms of Multiple Sclerosis | Uygun, Mehmet | US Department of Defense | \$ 189,686 |
| PROF Academy: A Model to Enhance Overall Well-Being, Mental Health Practices and Professional Development Among Division III Student Athletes as They Transition from PROF to Professional | Bullard, JoAnne | National Collegiate Athletic Association | \$ 9,860 |
| Parent/Teen Driving Orientation Program | Rattigan, Peter | State Farm | \$ 19,905 |
| Simultaneous assessment of hand function, neuromuscular quickness, and spasticity in people with multiple sclerosis | Uygun, Mehmet | New Jersey Health Foundation, Inc. | \$ 30,360 |
| NJ Health Initiatives Next Generation Leaders: Glassboro High School | Spencer, Leslie | Robert Wood Johnson Foundation | \$ 197,074 |
| Hopeworks-Camden Culture of Health Leaders | Vaughn, Nicole | Hopeworks 'N Camden | \$ 29,998 |
| The Empower Program: Using Motivational Interviewing to Support MBC Patient Self-Advocacy and Decision-Making | Spencer, Leslie | Pfizer Inc. | \$ 89,222 |

Administration Awards & Proposals

College of Science & Mathematics Proposals Continued

Psychology

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| Dating Violence Prevention For Young Mothers: A Developmental Study | Joppa, Meredith | American Psychological Foundation | \$ 4,953 |
| Mechanisms of Change for Smoking Cessation in Schizophrenia using Mobile CM + ACT | Raiff, Bethany | National Institutes of Health | \$ 1,098,027 |
| BREATH FREE Smartphone Videogame-based incentives for Smoking Cessation | Raiff, Bethany | Entertainment Science Playmatics JV | \$ 97,381 |
| Effects of a high-speed low-resistance cycling intervention on Parkinsonian motor symptoms in people with schizophrenia | Dinzeo, Tom | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Preventing Childhood Obesity In Developmentally Delayed Infants and Toddlers Identified for Early Intervention Services in New Jersey | Dihoff, Roberta | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Teaching Social Support Skills to Teenagers whose Parents Smoke Cigarettes: Intervention and Prevention | Raiff, Bethany | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Developing and testing a data-driven prevention program to promote healthy romantic relationships for student-athletes | Angelone, D.J. | National Collegiate Athletic Association | \$ 24,854 |
| Preventing Adolescent Substance Abuse By Integrating Prevention and Early Intervention Into New York High Schools | Bresani, Elena | Treatment Research Institute | \$ 35,489 |
| Consumer Guide to Adolescent Substance Abuse Treatment in the State of Utah | Bresani, Elena | Treatment Research Institute | \$ 16,025 |
| Summer Undergraduate Psychology Research Experience Grant | Haugh, Jim | American Psychological Association | \$ 16,793 |
| Dating Violence and Sexual Risk Prevention for Young Mothers | Joppa, Meredith | National Institutes of Health | \$ 425,940 |
| Dating Violence and Sexual Risk in Young Mothers' Relationships: Directions for Prevention | Joppa, Meredith | Fahs-Beck Fund for Research and Experimentation | \$ 19,980 |
| Feasibility, Acceptability, and Initial Efficacy of the Trigr Recovery App | Kirby, Kimberly | National Institutes of Health | \$ 389,069 |
| TRI - Home-based Continuing Care | Kirby, Kimberly | Treatment Research Institute | \$ 25,341 |

| | PROPOSALS | | AWARDS | | |
|---|-----------|---------------------|-----------|------------------|---------------------|
| | # | Amount | # | Indirects | Total Amount |
| CHAMP/GEAR UP | 3 | \$ 991,329 | 3 | \$ 42,774 | \$ 964,219 |
| Educational Opportunity Fund | 2 | \$ 1,807,794 | 5 | \$ - | \$ 1,860,762 |
| VR Lab | - | \$ - | 1 | \$ 20,194 | \$ 60,582 |
| International Center/English Language Programs | 1 | \$ 1,250,000 | 1 | \$ 9,288 | \$ 250,000 |
| Strategic Enrollment Management | - | \$ - | 1 | \$ - | \$ 34,174 |
| Global Learning and Partnerships | 1 | \$ 2,969,987 | - | \$ - | \$ - |
| University Library Services | 1 | \$ 6,000 | 2 | \$ 2,000 | \$ 11,987 |
| Total | 8 | \$ 7,025,010 | 13 | \$ 74,256 | \$ 3,181,724 |

Awards

CHAMP/GEAR UP

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-----------------------------|----------------|------------------|
| CHAMP/GEAR UP | Wigfall, Winona | New Jersey Higher Education | \$ 945,200 | \$ 41,365 |
| Summer 2017 Activity Grant - Professional Development | Wigfall, Winona | New Jersey Higher Education | \$ 2,990 | \$ 222 |
| 2017 NCCEP/GEAR UP Capacity Building Workshop | Wigfall, Winona | New Jersey Higher Education | \$ 16,029 | \$ 1,187 |

Educational Opportunity Fund

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|----------------------|-------------------------|-----------------------------|----------------|------------------|
| EOF FY17 - Camden | McPherson-Barnes, Penny | New Jersey Higher Education | \$ 19,558 | \$ - |
| EOF FY17- Glassboro | McPherson-Barnes, Penny | New Jersey Higher Education | \$ 4,623 | \$ - |
| EOF FY18 - Glassboro | Singleton, Dawn | New Jersey Higher Education | \$ 1,352,358 | \$ - |
| EOF FY18 - Camden | Singleton, Dawn | New Jersey Higher Education | \$ 455,436 | \$ - |
| EOF FY17- Glassboro | McPherson-Barnes, Penny | New Jersey Higher Education | \$ 28,787 | \$ - |

VR Lab

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---------------------------------|----------------|------------------|
| Visualization of unmanned aircraft systems (UAS) within a CAVE Virtual Reality Environment : A Feasibility Project | Lecakes, George | Federal Aviation Administration | \$ 60,582 | \$ 20,194 |

International Center/ English Language Programs

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|----------------------------|----------------|------------------|
| Rowan University Upward Bound Program for English Language Learners | Olivencia, Margarita | US Department of Education | \$ 250,000 | \$ 9,288 |

Strategic Enrollment Management

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|-------------------------|------------------------|---|----------------|------------------|
| 2016 CCS Summer Academy | Alexander, Janelle | The Leon and Tony Cooperman Family Foundation | \$ 34,174 | \$ - |

University Library Services

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|---------------------------------------|----------------|------------------|
| Preservation Assistance Grants for Smaller Institutions | Borden, Sara | National Endowment for the Humanities | \$ 6,000 | \$ 2,000 |
| Recharge at the Library | Fink, Susan | Library Link NJ | \$ 5,987 | \$ - |

Administration Proposals

CHAMP/GEAR UP

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|--|------------------|
| CHAMP/GEAR at Rowan University - Camden | Wigfall, Winona | Christian and Mary Lindback Foundation | \$ 30,000 |
| CHAMP/GEAR at Rowan University - Camden | Wigfall, Winona | New Jersey Higher Education | \$ 945,200 |
| 2017 NCEP/GEAR UP Capacity Building Workshop | Wigfall, Winona | New Jersey Higher Education | \$ 16,029 |

Educational Opportunity Fund

| Title | Principal Investigator | Sponsor | Requested Amount |
|------------------------|------------------------|-----------------------------|------------------|
| EOF FY18 - Main Campus | Singleton, Dawn | New Jersey Higher Education | \$ 1,352,358 |
| EOF FY18 Camden | Singleton, Dawn | New Jersey Higher Education | \$ 455,436 |

Global Learning and Partnerships

| Title | Principal Investigator | Sponsor | Requested Amount |
|--------------------------------------|------------------------|------------------------|------------------|
| Rowan University's America's Promise | Sosa, Horacio | US Department of Labor | \$ 2,969,987 |

International Center / English Language Programs

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|----------------------------|------------------|
| Rowan University Upward Bound Program for English Language Learners | Olivencia, Margarita | US Department of Education | \$ 1,250,000 |

University Library Services

| Title | Principal Investigator | Sponsor | Requested Amount |
|-------------------------|------------------------|-----------------|------------------|
| Recharge at the Library | Fink, Susan | Library Link NJ | \$ 6,000 |

College of Science & Mathematics Proposals Continued

Physics and Astronomy

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| Quantitative Measurement of the Effects of Nanoscale Confinement and Controlled Transport on Protein Structure and Function | Nucci, Nathaniel | National Science Foundation | \$ 718,973 |
| Rowan Noyce Scholars Program | Smith, Trevor | National Science Foundation | \$ 1,194,315 |
| Smart-design of Tunable Nanomaterials for Enhancing Radiation Therapy | Dobbins, Tabbetha | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Collaborative Research: 3-D Printing Protein-Polysaccharide Composite Biomaterials with Enhanced Molecular Interactions | Hu, Xiao | Rutgers, The State University of New Jersey | \$ 15,500 |
| RUI: Unraveling the Structure-Activity Relationships of Resilin Biomaterials by Joint Experimental-Computational Approaches | Hu, Xiao | National Science Foundation | \$ 349,220 |
| Flexible Protein Sensor Materials for Controlled Drug Delivery and Release | Hu, Xiao | New Jersey Health Foundation, Inc. | \$ 35,000 |
| DMREF: Collaborative Research: A multiscale approach for designing, optimizing, processing and testing innovative bioinspired polysaccharides-protein materials | Hu, Xiao | National Science Foundation | \$ 250,764 |
| Studying Discrepancies in Students' use of Graphs and Words | Smith, Trevor | National Science Foundation | \$ 350,174 |
| NIST - Summer Undergraduate Research Fellowship Program - Gaithersburg, MD | Dobbins, Tabbetha | National Institute of Standards and Technology | \$ 38,000 |
| NIST - SURF - Boulder | Dobbins, Tabbetha | National Institute of Standards and Technology | \$ 9,500 |
| Synergistic Effects of Nano-confinement and Catalysis on Shale Gas Conversion to Liquid Fuels using Synchrotron X-ray and Neutron Characterization | Dobbins, Tabbetha | American Chemical Society-Petroleum Research Fund | \$ 70,000 |
| Johnson Matthey Materials Science Graduate Assistantship | Hettinger, Jeffrey | Johnson Matthey | \$ 135,395 |
| Johnson Matthey Materials Characterization | Hettinger, Jeffrey | Johnson Matthey | \$ 12,600 |
| NASA NJSF 2017 Rowan University Physics Summer Research Program for Undergraduates | Magee-Sauer, Karen | Rutgers, The State University of New Jersey | \$ 15,000 |
| Characterization of Resin Effects on Chemical Exchange Dynamics in Microemulsion Systems | Nucci, Nathaniel | American Chemical Society-Petroleum Research Fund | \$ 55,000 |
| Unraveling the physicochemical determinants of anomalous diffusion and catalysis in living and nanoconfined systems | Nucci, Nathaniel | Research Corporation | \$ 100,000 |

College of Science & Mathematics Proposals Continued

Chemistry and Biochemistry (continued)

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| Mechanism and Morphology of Carbide-Derived Carbon Synthesized by Electrochemical Etching and Kinetics of Molecular Releasing | Yu, Lei | American Chemical Society-Petroleum Research Fund | \$ 70,000 |
| Preparation and Modification of Carbide-Derived Carbon at Ambient and Chlorine-Free Conditions: Versatile Material for Supercapacitors and Controlled Molecular Release | Yu, Lei | National Science Foundation | \$ 294,963 |
| Quantitative Evaluation of the Human Epithelial Cells and Cancer Cells Phagocytosis of Nanoparticles | Yu, Lei | New Jersey Health Foundation, Inc. | \$ 22,750 |
| Restek RASP | Grinias, James | Restek | \$ 3,000 |
| Portable Liquid Chromatograph for Point-of-Care Monitoring of Illicit Substances | Grinias, James | Tranxend, LLC | \$ 76,272 |
| Reactions of Vinyl and Divinyldiaziridines for the Synthesis of Heterocyclic Pharmacophores | Moura-Letts, Gustavo | National Institutes of Health | \$ 450,000 |
| Conversion Mechanism and Morphology of Carbide-Derived Carbon Synthesized by Electrochemical Etching - Fundamental Investigation of its Molecular Absorption / Releasing Kinetics | Yu, Lei | American Chemical Society-Petroleum Research Fund | \$ 70,000 |
| Acquisition of UHPLC Instrumentation with SFC and Semi-Preparative Capabilities | Grinias, James | National Science Foundation | \$ 69,219 |
| Career: Structure-Function relationships of the intrinsically disordered Islet Amyloid PolyPeptide | Wu, Chun | National Science Foundation | \$ 393,642 |

Computer Science

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|------------------------------------|------------------|
| Research Collaboration Rowan University - ASRC Federal Mission Solutions | Breizman, Tony | Mission Solutions Engineering | \$ 99,996 |
| Rare Disease Treatment Mining | Breizman, Tony | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Enhancing Success in Students utilizing Technology-enabled Learning via Temporal Data Analytics and Modeling | Ho, Shen-Shyang | National Science Foundation | \$ 308,814 |
| Rowan CS4HS 2017 | Kay, Jennifer | Google Inc | \$ 28,604 |
| ACM-W igniteCS | Kay, Jennifer | Google Inc | \$ 4,681 |
| Spectral alignment and outlier detection for LC-MS data | Hnatyshin, Vasil | Bristol-Myers Squibb | \$ 39,999 |

College of Communication & Creative Arts Awards & Proposals

| College of Communication and Creative Arts | | | | | |
|--|-----------|------------------|----------|-------------|-----------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Art Gallery | 1 | \$ 14,000 | 1 | \$ - | \$ 6,000 |
| Public Relations/Advertising | 1 | \$ 3,000 | - | \$ - | \$ - |
| Art Department | 1 | \$ 20,000 | - | \$ - | \$ - |
| Total | 7 | \$ 37,000 | 1 | \$ - | \$ 6,000 |

Awards

Art Gallery

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---------------------------|------------------------|------------------------------|----------------|------------------|
| Rowan Art Gallery General | Salvante, Mary | NJ State Council on the Arts | \$ 6,000 | \$ - |

Proposals

Art Gallery

| Title | Principal Investigator | Sponsor | Requested Amount |
|---------------------|------------------------|------------------------------|------------------|
| Navigating Elements | Salvante, Mary | NJ State Council on the Arts | \$ 14,000 |

Art

| Title | Principal Investigator | Sponsor | Requested Amount |
|--------------------------------|------------------------|-------------------------|------------------|
| Tobacco-free Campus Initiative | Thomas, Skeff | American Cancer Society | \$ 20,000 |

Public Relations/Advertising

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|----------------------------------|------------------|
| Working Title: Hispanic Engagement with Promoted Twitter Content | Novak, Alison | American Academy for Advertising | \$ 3,000 |

School of Earth and Environment Awards & Proposals

| School of Earth and Environment | | | | | |
|---|-----------|---------------------|----------|-------------------|-------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | 1 | \$ 25,000 | 2 | \$ - | \$ 50,000 |
| Geology | 3 | \$ 887,513 | 1 | \$ 66,463 | \$ 199,388 |
| Geography, Planning and Sustainability | 12 | \$ 1,620,889 | 6 | \$ 88,519 | \$ 457,859 |
| Total | 16 | \$ 2,533,402 | 9 | \$ 154,982 | \$ 707,247 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|-------------------------------------|------------------------|--------------------------|----------------|------------------|
| Rowan University STEAM Academy 2017 | Fischer, Danielle | AT&T Foundation | \$ 25,000 | \$ - |
| Rowan University STEAM Academy 2017 | Fischer, Danielle | TD Charitable Foundation | \$ 25,000 | \$ - |

Geography, Planning & Sustainability

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| National Guard Facilities GIS Internship Program | Hasse, John | NJ Dept. of Military and Veteran Affairs | \$ 145,000 | \$ 25,712 |
| NJ Municipal Asset Profiler/ Conservation Blueprint Phase II | Hasse, John | The Geraldine R. Dodge Foundation | \$ 65,000 | \$ - |
| The Conservation Blueprint Phase 2-a | Hasse, John | Nature Conservancy (Prime: Geraldine R. Dodge Foundation) | \$ 4,000 | \$ - |
| National Guard Facilities GIS Internship Program | Hasse, John | NJ Dept. of Military and Veteran Affairs | \$ 6,000 | \$ - |
| NJ Army National Guard Environmental Internship Program | Crumrine, Patrick | NJ Dept. of Military and Veteran Affairs | \$ 138,642 | \$ 29,780 |
| Cultivating the Environmental Humanities | Howell, Jordan | National Endowment for the Humanities | \$ 99,217 | \$ 33,027 |

Geology

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-------------------------------------|----------------|------------------|
| OSIRIS-REx Asteroid Sample Return Mission | Connolly, Harold | University of Arizona (Prime: NASA) | \$ 199,388 | \$ 66,463 |

College of Science & Mathematics Proposals Continued

Chemistry and Biochemistry

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|---|------------------|
| Mycobacterium vaccae immunization for drug addiction, relapse and withdrawal | Keck, Thomas | National Institutes of Health | \$ 362,850 |
| Abuse liability and anti-addiction potential of the atypical mu opioid receptor agonist IBNtxA | Keck, Thomas | National Institutes of Health | \$ 109,770 |
| Abuse liability and anti-addiction potential of the atypical mu opioid receptor agonist IBNtxA | Keck, Thomas | PhRMA Foundation | \$ 100,000 |
| CAREER: Metallooxaziridines for the synthesis of nitrogen-containing three-membered heterocycles | Moura-Letts, Gustavo | National Science Foundation | \$ 713,680 |
| Identification and Characterization of Actions of Thyronamines: Novel Neurotransmitter-like Derivatives of Thyroid Hormones | Moura-Letts, Gustavo | Rutgers, The State University of New Jersey | \$ 294,954 |
| Redox-Switchable Chemical Tags for Mixture Synthesis | Moura-Letts, Gustavo | National Institutes of Health | \$ 2,100,000 |
| Rearrangement Reactions of Divinyldiaziridines for the Synthesis of Seven-Membered Ring N,N-Containing Heterocycles | Moura-Letts, Gustavo | National Science Foundation | \$ 353,299 |
| Formulating Broad-Spectrum Antibiotics to be Pathogen-Specific | Perez, Lark | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Development of novel high-affinity and selective antagonist ligands for the dopamine D4 Receptor (D4R) subtype | Keck, Thomas | High Point University | \$ 89,528 |
| Novel Trace Amine-Associated Receptor Agonists to Treat Drug Addiction | Keck, Thomas | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Nature products target Validation in Drug Discovery for Anti-Alzheimer Disease | Mou, Xiaoyang | Guava Medicine LLC | \$ 400,000 |
| Metallooxaziridines for the Synthesis of Nitrogen-Containing Three-Membered Ring Heterocycles | Moura-Letts, Gustavo | American Chemical Society-Petroleum Research Fund | \$ 69,600 |
| Identification and Characterization of Actions of Thyronamines: Novel Neurotransmitter-like Derivatives of Thyroid Hormones | Moura-Letts, Gustavo | Rutgers, The State University of New Jersey | \$ 15,000 |
| Cyanopyrroldinylamino Alcohols as Potent DPP4 Inhibitors for the Development of Diabetes Therapeutics | Moura-Letts, Gustavo | New Jersey Health Foundation, Inc. | \$ 35,000 |
| MRI: Acquisition of a 400 MHz Bruker Avance III HD NMR Spectrometer for the Transformative Advancement of Undergraduate Research | Moura-Letts, Gustavo | National Science Foundation | \$ 600,209 |
| Inhibition of human Islet Amyloid PolyPeptide (IAPP) aggregation, a key pathological process in Type 2 diabetes (T2D), by non-amyloidogenic pig IAPP derivatives from structure-based design | Wu, Chun | New Jersey Health Foundation, Inc. | \$ 35,000 |

College of Science & Mathematics Proposals Continued

Biological Sciences

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| Preclinical analysis of MAD28 in inflammatory breast cancer | Alpaugh, Mary | California Breast Cancer Research Program | \$ 111,048 |
| Convergent Evolution of Complex Traits in Perissodactyla: Testing the Relationship with Environmental Change | Holbrook, Luke | National Science Foundation | \$ 161,618 |
| Bridges to Baccalaureate: Cumberland County College Bridge to Rowan | Krufka, Alison | National Institutes of Health | \$ 1,414,067 |
| Development of Engineered Proteins to Perform Site-directed Epigenetic Modification in <i>S. cerevisiae</i> | Carone, Benjamin | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Bacterial Biosorption of Soluble Lead | Hecht, Gregory | National Science Foundation | \$ 407,459 |
| Investigating the functional potential of induced and targeted H3K9 methylation to elicit epigenetic programs | Carone, Benjamin | National Institutes of Health | \$ 449,913 |

Biomedical and Translational Sciences

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|-------------------------------|------------------|
| Inflammatory breast cancer exosomes in cancer progression and metastasis | Alpaugh, Mary | Susan G. Komen Foundation | \$ 57,000 |
| NMR assignment of the catalytic domain of hypoxia-inducible factor prolylhydroxylase 2 | Nucci, Nathaniel | American Heart Association | \$ 5,000 |
| Identification of the molecular regulatory elements that drive intravasation, the rate-limiting step of metastasis using an in vitro system with a high degree of translational to clinic | Alpaugh, Mary | METAvisor | \$ 198,751 |
| Elucidating the impact of the <i>Npc1nmf164</i> mutation in the postnatal cerebellar development of a mouse model of Niemann-Pick Type C disease | Soto, Ileana | National Institutes of Health | \$ 396,531 |

Mathematics

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|---------------------------|-------------------------------|------------------|
| Career: A Data-Driven Approach to the Problem of Multiple Testing with Applications to Genomics | Bendjilali, Nasrine | National Science Foundation | \$ 485,452 |
| Collaborative Research REU Site: Alliances for Bridging Two-Year and Four-Year Colleges Through Student Research Projects in Discrete Mathematics | Nguyen, Hieu | National Science Foundation | \$ 104,431 |
| A Unified Bayesian Hierarchical Framework for Pathway Analysis in Genome-Wide Association Studies | Papachristou, Charalampos | University of Texas at Dallas | \$ 122,948 |
| Career: Clustering Based Multiple Testing Procedures with Applications to Genomics | Bendjilali, Nasrine | National Science Foundation | \$ 368,271 |

School of Earth and Environment Proposals

Dean's Office

| Title | Principal Investigator | Sponsor | Requested Amount |
|-------------------------------------|------------------------|-----------------|------------------|
| Rowan University STEAM Academy 2017 | Fischer, Danielle | AT&T Foundation | \$ 25,000 |

Geography, Planning & Sustainability

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| Garbage in the Garden (State): Ecological Identity & Solid Waste Governance in New Jersey | Howell, Jordan | National Science Foundation | \$ 150,714 |
| NJ Army National Guard Environmental Internship Program | Crumrine, Patrick | NJ Dept. of Military and Veteran Affairs | \$ 138,413 |
| NJ Municipal Asset Profiler/ Conservation Blueprint Phase II | Hasse, John | The Geraldine R. Dodge Foundation | \$ 112,409 |
| Cultivating the Environmental Humanities | Howell, Jordan | National Endowment for the Humanities | \$ 99,218 |
| Garbage in the Garden (State): Ecological Identity & Solid Waste Governance in New Jersey | Howell, Jordan | National Science Foundation | \$ 223,314 |
| Making Scents of Big Data: Examining the Human Experience and Expression of Smell | Kitson, Jennifer | National Endowment for the Humanities | \$ 321,720 |
| Brownfields Area-Wide Plan for Philadelphia's Lower North Delaware Industrial District | Meenar, Mahbubur | US Environmental Protection Agency | \$ 174,699 |
| Montessori School Green Stormwater Infrastructure Plan | Meenar, Mahbubur | The Montessori School | \$ 14,000 |
| Planning for Water Quality Phase 2: Developing the NJ Buildout Modeler | Hasse, John | NJ Department of Environmental Protection | \$ 328,983 |
| The New Jersey Municipal Asset Profiler Operations Support FY18 | Hasse, John | F. M. Kirby Foundation | \$ 25,000 |
| The Conservation Blueprint Phase 2-a | Hasse, John | Nature Conservancy | \$ 4,000 |
| EPA STAR Equitable Distribution of Green Stormwater Infrastructure (GSI) Projects in Philadelphia | Meenar, Mahbubur | Temple University | \$ 28,419 |

Geology

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|--|------------------|
| NSF Collaborative Research: Water on the Antarctic Ice Sheet | Trusel, Luke | Cooperative Institute for Research in Environmental Sciences | \$ 97,923 |
| Antarctic Surface Hydrology and Future Ice-Shelf Stability | Trusel, Luke | Columbia University | \$ 2,729 |
| A Coupled Antarctic Cryosphere System: Linking Ice Sheet Surface Mass Balance Processes and Ocean Surface Variability Across Coastal Antarctica | Trusel, Luke | National Aeronautics Space Administration | \$ 786,861 |

College of Education Awards & Proposals

| College of Education | | | | | |
|---|-----------|---------------------|-----------|------------------|---------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | 1 | \$ 8,100,000 | 1 | \$ - | \$ 18,000 |
| Interdisciplinary/Inclusive Education | 14 | \$ 3,561,972 | 0 | \$ - | \$ - |
| STEAM Education | 5 | \$ 216,199 | 0 | \$ - | \$ - |
| Educational Services and Leadership | 4 | \$ 446,119 | 2 | \$ 17,704 | \$ 217,403 |
| Center for Access, Success, and Equity | 3 | \$ 548,186 | 6 | \$ 28,546 | \$ 777,182 |
| Language, Literacy, & Sociocultural Education | 6 | \$2,722,774 | 2 | \$ 14,815 | \$ 205,000 |
| Total | 33 | \$15,595,250 | 11 | \$ 61,065 | \$ 1,217,585 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---------------------------------------|------------------------|---|----------------|------------------|
| Rowan Mentoring Plan Cohort 1 Fellows | Perry, Jull | The Woodrow Wilson National Fellowship Foundation | \$ 18,0000 | \$ - |

Educational Services and Leadership

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|--|----------------|------------------|
| National Association of School Psychologists Standards Revision - Graduate Assistant | Bole-Williams, Barbara | National Association of School Psychologists | \$ 22,660 | \$ - |
| Forman S Acton: Evaluating the Effectiveness of Initiatives | Kerrigan, Monica | Forman S. Acton Educational Foundation | \$ 194,743 | \$ 17,704 |

Center for Access, Success, and Equity

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|--|----------------|------------------|
| Early Childhood Leadership Institute - Grow NJ Kids | Isik-Ercan, Zeynep | NJ Department of Human Services | \$ 111,980 | \$ 10,180 |
| Rowan Mentoring Plan Cohort 1 Fellows | Perry, Jill | The Woodrow Wilson National Fellowship Foundation | \$ 16,980 | \$ - |
| Rowan Mentoring Plan Cohort 1 Fellows | Perry, Jill | The Woodrow Wilson National Fellowship Foundation | \$ 4,758 | \$ - |
| Rowan University Early Intervention | Dihoff, Roberta | NJ Department of Health | \$ 429,691 | \$ - |
| South Jersey Mathematics Ambassadors Project | Wieman, Rob | NJ Department of Education | \$ 184,402 | \$ 18,366 |
| Measurement of Young Peoples Policy Arguments in Authentic Contexts | Zion, Shelley | University of Colorado - Boulder (Prime: Spencer Foundation) | \$ 29,371 | \$ - |

Language, Literacy, & Sociocultural Education

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-----------------------------|----------------|------------------|
| The Beginning Teacher Project: Building Capacity and Professional Learning | Luet, Kathryn | NJ Department of Education | \$ 200,000 | \$ 14,815 |
| (Re)Envisioning Rowan: Engaging in Multimedia Dialogues to Build Campus Community | Luet, Kathryn | Bringing Theory to Practice | \$ 5,000 | \$ - |

College of Science & Mathematics Awards & Proposals

Psychology

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|--|----------------|------------------|
| NIH- BREATHE FREE: Smartphone Videogame-Based Incentives for Smoking Cessation | Raiff, Bethany | Entertainment Science Playmatics JV (Prime: National Institutes of Health) | \$ 97,381 | \$ 25,073 |
| Preventing Adolescent Substance Abuse By Integrating Prevention and Early Intervention Into New York High Schools | Bresani, Elena | Treatment Research Institute (Prime: National Institutes of Health) | \$ 32,049 | \$ 10,683 |
| TRI PTRC Subcontract | Kirby, Kimberly | Treatment Research Institute (Prime: National Institutes of Health) | \$ 32,467 | \$ 10,822 |
| TRI - Home-based Continuing Care | Kirby, Kimberly | Treatment Research Institute (Prime: National Institutes of Health) | \$ 25,341 | \$ 8,447 |
| TRI PTRC Subcontract | Kirby, Kimberly | Treatment Research Institute (Prime: National Institutes of Health) | \$ 13,354 | \$ 4,451 |
| Consumer Guide to Adolescent Substance Abuse Treatment in the State of Utah | Bresani, Elena | Treatment Research Institute (Prime: National Institutes of Health) | \$ 16,025 | \$ 5,342 |
| Predicting AOD Relapse and Treatment Completion from Social Media Use | Kirby, Kimberly | University of Pennsylvania (Prime: NIH) | \$ 18,789 | \$ 6,263 |

Mathematics

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|------------------------------|------------------------|----------------------|----------------|------------------|
| Software Development Project | Thayasivam, Uma | Bristol-Myers Squibb | \$ 40,000 | \$ 8,000 |
| Software Development Project | Thayasivam, Uma | Bristol-Myers Squibb | \$ 20,000 | \$ 40,000 |

Proposals

Dean's Office

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| Supporting Women Inspiring a New Generation of Scientists (WINGS) | Yurak, Tricia | American Association of University Women | \$ 4,700 |
| NASA NJ Space Grant Community Bridge Program at Rowan University | Magee-Sauer, Karen | Rutgers, The State University of New Jersey | \$ 5,000 |
| NASA NJSG 2017 Rowan University College of Science & Mathematics Summer Research Program for Undergraduates | Magee-Sauer, Karen | Rutgers, The State University of New Jersey | \$ 60,000 |

College of Science & Mathematics Awards Continued

Chemistry & Biochemistry

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|------------------------------------|----------------|------------------|
| Indole Alkaloids from Peruvian Medicinal Plants for the Treatment of Malaria | Moura-Letts, Gustavo | Syrsa Corporation | \$ 100,000 | \$ 20,000 |
| Nature products target Validation in Drug Discovery for Anti-Alzheimer Disease | Mou, Xiaoyang | Guava Medicine LLC | \$ 500,000 | \$ 100,000 |
| Abuse liability and anti-addiction potential of the atypical mu opioid receptor agonist IBNTxA | Keck, Thomas | National Institutes of Health | \$ 108,576 | \$ 33,576 |
| Formulating Broad-Spectrum Antibiotics to be Pathogen-Specific | Perez, Lark | New Jersey Health Foundation, Inc. | \$ 35,000 | \$ - |

Computer Science

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|-----------------------------------|------------------------|--|----------------|------------------|
| Rowan University Women in CS Club | Kay, Jennifer | National Center for Women Information Technology | \$ 3,000 | \$ - |
| ACM-W igniteCS | Kay, Jennifer | Google Inc | \$ 3,851 | \$ - |

Physics and Astronomy

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| Flexible Protein Sensor Materials for Controlled Drug Delivery and Release | Hu, Xiao | New Jersey Health Foundation, Inc. | \$ 35,000 | \$ - |
| NASA NJSJ 2017 Rowan University Physics Summer Research Program for Undergraduates | Magee-Sauer, Karen | Rutgers, The State University of New Jersey (Prime: NASA) | \$ 15,000 | \$ - |
| Rowan Noyce Scholars Program | Smith, Trevor | National Science Foundation | \$ 537,437 | \$ 64,729 |
| Johnson Matthey Materials Science Graduate Assistantship | Hettinger, Jeffrey | Johnson Matthey | \$ 32,000 | \$ 10,000 |

Health & Exercise Science

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|--|----------------|------------------|
| PROF Academy: A Model to Enhance Overall Well-Being, Mental Health Practices and Professional Development Among Division III Student Athletes as They Transition from PROF to Professional | Bullard, JoAnne | National Collegiate Athletic Association | \$ 9,860 | \$ - |

College of Education Proposals

\$Dean's Office

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|--------------------------|----------------------------|------------------|
| Project REACCH: Rural Education Achievement through Cultural Competence and High Impact Practices | Williams Shealey, Monika | US Department of Education | \$ 8,100,000 |

Educational Services and Leadership

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|---|------------------|
| PhD in Education - Study Abroad in Iringa, Tanzania: "Informal Education through Community Development" | Johnson, Ane | Council on International Educational Exchange | \$ 20,000 |
| Assembling Gender-Just Peace: Women Faculty and Postsecondary Educational Praxis in Zimbabwe | Johnson, Ane | Society for Research into Higher Education (SRHE) | \$,500 |
| NASP Graduate Assistant Position 2016-2017 | Bole Williams, Barbara | National Association of School Psychologists | \$ 22,660 |
| Enhanced Girls' Education Rights through Building Implementers' Evaluation Skills and Documenting Local Solutions for Learning and Sharing in Policy Advocacy: Partnership between Rowan University's Center for Access, Success, & Equity & the Forum for African Women Educationalists | Johnson, Ane | U.S. Department of State | \$ 397,959 |

Language, Literacy, & Sociocultural Education

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|------------------------------------|------------------|
| Language, Literacy, and Cultural Practices in Oaxaca, Mexico: A Rowan Summer Experience for K-12 Educators | Abraham, Stephanie | US Department of Education | \$ 74,289 |
| Language, Literacy, and Cultural Practices in Oaxaca, Mexico: A Rowan Summer Experience for K-12 Educators | Abraham, Stephanie | US Department of Education | \$ 74,289 |
| Curbing Elementary School Students' Summer Reading Loss | Chen, Xiufang | Dollar General Literacy Foundation | \$ 3,000 |
| Identifying the Barriers and Resources for Dual Language Immersion Programs in NJ | Wassell, Beth | The Fund for New Jersey | \$ 23,310 |
| Adolescent Literacy Intervention Program | Lee, Valarie | Dollar General Literacy Foundation | \$ 4,000 |
| Supporting Teachers of ELLs at Rowan (STELLAR) | Michener, Catherine | US Department of Education | \$ 2,543,886 |

STEAM Education

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| (Re)Envisioning Rowan: Engaging in Multimedia Dialogues to Build Campus Community | Luet, Kathryn | Bringing Theory to Practice | \$ 5,000 |
| Where are all of the dual language immersion programs? Identifying the Barriers and Resources for Dual Language Immersion Program Development in NJ | Wassell, Beth | American Educational Research Association | \$ 4,972 |
| South Jersey Mathematics Ambassadors Project | Wieman, Rob | NJ Department of Education | \$ 184,402 |
| Mobile learning for pre-service teachers | Kuo, Yu-Chun | Robert A. Mills Foundation | \$ 15,000 |
| International collaborative learning | Kuo, Yu-Chun | Gertrude L. Hirsch Charitable Trust | \$ 6,825 |

College of Education Proposals (continued)

Interdisciplinary/Inclusive Education

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|-------------------------|---|------------------|
| Developing and Implementing an Emotion Coaching Intervention for Teachers in Early Intervention and Inclusive Early Childhood Settings | Edwards, Nicole | Institute of Education Sciences (IES) | \$ 1,111,704 |
| Childhood in Turkish history, art, and culture: A book project | Isik-Ercan, Zeynep | Turkish Cultural Foundation | \$ 20,509 |
| Using Book Clubs to Develop Content and Pedagogical Knowledge about the Holocaust with Teacher Candidates: A Case Study | Rich, Jennifer | United States Holocaust Museum | \$ 2,494 |
| Mentoring School Assistant principals and Student Educational Outcomes: A Longitudinal Mixed-Methods Study | Sun, Qian | Institute of Education Sciences (IES) | \$ 668,558 |
| Linking Policy to Classroom Practices: Preparing to Evaluate the Impact of Teacher Leadership | Vernon-Dotson, Lisa | Spencer Foundation | \$ 135,225 |
| South Africa Study Abroad Program 2017 | Elder, Brent | Council on International Educational Exchange | \$ 20,000 |
| South Africa Study Abroad Program 2017 | Elder, Brent | American Educational Research Association | \$ 5,000 |
| Applying Social Cognitive Career Theory to Recruitment: A Planning Project | Ferguson, Sarah | University of North Texas | \$ 33,240 |
| Health Education, Advocacy and Literacy Training to Improve Health Outcomes for Young Adults with Intellectual Disabilities and Autism Spectrum Disorder (HEALTHY) | Vitalone Raccaro, Nancy | Health Resources and Services Administration (HRSA) | \$ 1,431,474 |
| Predictors of Success for College Students with ASD | Accardo, Amy | Autism Science Foundation | \$ 5,000 |
| Disability Studies in Japan | Elder, Brent | Syracuse University | \$ 83,800 |
| Using University-Teacher Partnerships to Develop Sustainable Inclusive Practices | Elder, Brent | Braitmayer Foundation | \$ 34,995 |
| Using Holocaust Education to Teach About Social Emotional Competencies and Disability | Elder, Brent | Education First | \$ 5,000 |
| Professional Development Schools and Inclusive Education School Reform | Elder, Brent | NEA Foundation | \$ 4,973 |

Center for Access, Success, and Equity

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|--------------------------------|------------------|
| Getting to Action: Utilizing CCI to create resilient school/community ecologies for youth | Zion, Shelley | Spencer Foundation | \$ 49,680 |
| 2018 Early Intervention Program | Dihoff, Roberta | NJ Department of Health | \$ 458,632 |
| Camden City School District 21st Century Grant | Zion, Shelley | Camden City Board of Education | \$ 39,874 |

College of Science & Mathematics Awards & Proposals

| College of Science & Mathematics / School of Health Professions | | | | | |
|---|-----------|---------------------|-----------|-------------------|---------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | 3 | \$ 69,700 | 3 | \$ - | \$ 69,700 |
| Biological Sciences | 6 | \$ 2,579,105 | | \$ - | \$ - |
| Biomedical & Translational Sciences | 4 | \$ 657,282 | 1 | \$ 23,722 | \$ 71,166 |
| Chemistry & Biochemistry | 25 | \$ 6,798,736 | 4 | \$ 153,576 | \$ 743,576 |
| Computer Science | 6 | \$ 517,094 | 2 | \$ - | \$ 6,851 |
| Mathematics | 4 | \$ 1,081,102 | 2 | \$ 48,000 | \$ 60,000 |
| Physics & Astronomy | 16 | \$ 3,384,441 | 4 | \$ 74,729 | \$ 619,437 |
| Psychology | 20 | \$ 4,428,471 | 7 | \$ 71,081 | \$ 235,406 |
| Health and Exercise Science | 8 | \$ 648,771 | 1 | \$ - | \$ 9,860 |
| Total | 92 | \$20,164,702 | 24 | \$ 371,108 | \$ 1,815,996 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|---|----------------|------------------|
| Supporting Women Inspiring a New Generation of Scientists (WINGS) | Yurak, Tricia | American Association of University Women | \$ 4,700 | \$ - |
| NASA NJ Space Grant Community College Bridge Program at Rowan University | Magee-Sauer, Karen | Rutgers, The State University of New Jersey (Prime: NASA) | \$ 5,000 | \$ - |
| NASA NJSG 2017 Rowan University College of Science & Mathematics Summer Research Program for Undergraduates | Magee-Sauer, Karen | Rutgers, The State University of New Jersey (Prime: NASA) | \$ 60,000 | \$ - |

Biomedical & Translational Sciences

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|--|----------------|------------------|
| Preclinical analysis of MAD28 in inflammatory breast cancer | Alpaugh, Mary | University of California - San Diego (Prime: UC California Breast Cancer Research Program) | \$ 71,166 | \$ 23,722 |

College of Performing Arts

| College of Performing Arts | | | | | |
|----------------------------|-----------|-------------------|----------|-------------|------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | 3 | \$ 69,000 | 1 | \$ - | \$ 8,700 |
| Theatre & Dance | 1 | \$ 14,505 | - | \$ - | \$ - |
| Music | 2 | \$ 72,100 | 1 | \$ - | \$ 25,000 |
| Total | 6 | \$ 155,605 | 2 | \$ - | \$ 33,700 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|------------------------------|------------------------|--------------------------------------|----------------|------------------|
| Cantus Concert and Residency | Sanders, Gloria | New Jersey State Council on the Arts | \$ 8,700 | \$ - |

Music

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---------------------------------|------------------------|---------------------|----------------|------------------|
| Les Paul Music Industry Lecture | Dammers, Rick | Les Paul Foundation | \$ 25,000 | \$ - |

Proposals

Dean's Office

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|-----------------------------------|------------------|
| Rowan Prep Program Expansion | Skrupky, Anna | Presser Foundation | \$ 10,000 |
| Christiane Matallo Residency and Performance - House of Murals | Sanders, Gloria | NJ State Council on the Arts | \$ 29,000 |
| The Creative Glassboro Performance Art Mobile Pop-Up Project | Stewart, Melanie | The Geraldine R. Dodge Foundation | \$ 30,000 |

Music

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|-----------------------------------|------------------|
| Les Paul Music Industry Lecture | Dammers, Rick | Les Paul Foundation | \$ 25,000 |
| Rowan University Student Ensembles Concert Tour | Higgins, Joseph | Frank and Lydia Bergen Foundation | \$ 47,100 |

Theatre & Dance

| Title | Principal Investigator | Sponsor | Requested Amount |
|------------------------------------|------------------------|--------------------------|------------------|
| STICKY - Singapore Fringe Festival | Stewart, Melanie | U.S. Department of State | \$ 14,505 |

Henry M. Rowan College of Engineering / South Jersey Technology Park Awards & Proposals

| Henry M. Rowan College of Engineering and South Jersey Technology Park | | | | | |
|--|------------|---------------------|-----------|-------------------|---------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Dean's Office | 0 | \$ - | 2 | \$ 2,592 | \$ 35,000 |
| Biomedical Engineering | 25 | \$ 5,371,383 | 5 | \$ 171,049 | \$ 782,248 |
| Chemical Engineering | 18 | \$ 8,415,252 | 8 | \$ 199,157 | \$ 683,314 |
| Civil & Environmental Engineering | 29 | \$13,058,634 | 18 | \$ 410,162 | \$ 4,420,412 |
| Electrical & Computer Engineering | 12 | \$ 4,441,845 | 3 | \$ 90,893 | \$ 344,435 |
| ExEEd | 7 | \$ 1,899,396 | 1 | \$ 67,774 | \$ 203,321 |
| Mechanical Engineering | 9 | \$ 1,303,760 | 5 | \$ 6,054 | \$ 567,969 |
| Total | 100 | \$34,490,270 | 42 | \$ 947,681 | \$ 7,036,699 |

Awards

Dean's Office

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---------------------------------|------------------------|------------------------|----------------|------------------|
| STEAM Academy | Basntis, Melanie | PSE&G | \$ 30,000 | \$ 2,222 |
| Attracting Women to Engineering | Basntis, Melanie | Atlantic City Electric | \$ 5,000 | \$ 370 |

Biomedical Engineering

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|--------------------------------|----------------|------------------|
| Robossis: Orthopedic Surgical Robot | Abedin Nasab, Mohammad | University City Science Center | \$ 100,000 | \$ 5,000 |
| Post-drawing polymer nanofibers: Applying a fundamental fiber manufacturing process to nanofabrication | Beachley, Vincent | National Science Foundation | \$ 500,000 | \$ 159,399 |
| RUI: Continuous nanofiber manufacturing with real time | Beachley, Vincent | National Science Foundation | \$ 15,900 | \$ - |
| Novel In-Situ Forming Biodegradable Nanogels Killing Myo/Nog Cells in the Lens to Prevent the Fibrotic Disease called Posterior Capsule Opacification (PCO) | Byrne, Mark | The Cooper Foundation | \$ 93,198 | \$ - |
| Establishing a mechanistic link between cerebral blood flow and the blood-brain barrier | Galie, Peter | American Heart Association | \$ 73,150 | \$ 6,650 |

Engineering / SJTP Awards (continued)

Chemical Engineering

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| HELIOS 3-D Solar Thermal Collector | Dahm, Kevin | Helios LLC | \$ 3,000 | \$ 600 |
| Efficacy of liquid esters in preventing the crystallization of UV filters in sunscreen Formulation | Savelski, Mariano | INOLEX | \$ 4,804 | \$ 1,601 |
| Efficacy of liquid esters in preventing the crystallization of UV filters in sunscreen formulation | Savelski, Mariano | INOLEX | \$ 219,855 | \$ 63,285 |
| Process Intensification in Food Manufacture - Optimizing Water, Energy, Waste Reduction | Slater, C. Stewart | US Environmental Protection Agency | \$ 44,531 | \$ 12,808 |
| Synthesis and Characterization of Bio-based Resins for the Development of Sustainable Polymers and Composites for DoD applications | Stanzione, Joe | Department of Army | \$ 50,000 | \$ 13,966 |
| High-Performance Polymers from Bio-based Feedstocks | Stanzione, Joseph | Drexel University (Prime: US Department of Defense) | \$ 294,612 | \$ 87,205 |
| Media Loss Minimization in Filtration Operations | Gephardt, Zenaida | Hungerford and Terry, Inc. | \$ 12,707 | \$ 2,534 |
| Process Intensification in Food Manufacture - Optimizing Water, Energy, Waste Reduction | Slater, C. Stewart | US Environmental Protection Agency | \$ 53,805 | \$ 17,158 |

Civil & Environmental Engineering

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|--|----------------|------------------|
| UTRC2 full time student scholarship | Bhavsar, Parth | University Transportation Research Center (Prime: U.S. Dept. of Transportation) | \$ 25,000 | \$ - |
| Evaluation of "over-tightening" in structural bolts with and without direct tension indicators | Cleary, Douglas | Turnasure LLC | \$ 3,288 | \$ 1,096 |
| Algae Grows the Future | Jahan, Kauser | National Science Foundation | \$ 300,000 | \$ 93,334 |
| Accelerated Pavement Workshop: A Collaborative Effort between Rowan University, VTRC and FDOT | Mehta, Yusuf | University Transportation Research Center (Prime: U.S. Dept. of Transportation) | \$ 14,953 | \$ 3,628 |
| NJARNG/Rowan University Energy/Building Information Model (BIM) Intern Program | Everett, Jess | NJ Dept. of Military and Veteran Affairs | \$ 149,808 | \$ 32,714 |
| Evaluation of Simulation Models for Road Weather Information System | Nazari, Rouzbeh | University Transportation Research Center (Prime: US Department of Transportation) | \$ 75,000 | \$ 25,000 |
| Accelerated Pavement Workshop: A Collaborative Effort between Rowan University, VTRC and FDOT | Mehta, Yusuf | University Transportation Research Center (Prime: US Department of Transportation) | \$ 14,953 | \$ 3,628 |

College of Humanities & Social Sciences Awards & Proposals

| College of Humanities and Social Sciences | | | | | |
|---|-----------|-------------------|----------|------------------|-------------------|
| | PROPOSALS | | AWARDS | | |
| | # | Amount | # | Indirects | Total Amount |
| Political Sciences & Economics | 1 | \$ 68,736 | 3 | \$ 29,483 | \$ 122,500 |
| Law and Justice | 3 | \$ 807,779 | 1 | \$ - | \$ 48,576 |
| History | 0 | \$ - | 1 | \$ - | \$ 47,803 |
| Total | 4 | \$ 876,515 | 5 | \$ 29,483 | \$ 218,879 |

Awards

Political Sciences & Economics

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|-------------------------|---|----------------|------------------|
| Geospatial Factors and the trafficking/Terrorism Nexus in Eurasia | Markowitz, Lawrence | The University of Kansas (Prime: Department of Defense) | \$ 45,000 | \$ 13,966 |
| Geospatial Factors and the trafficking/Terrorism Nexus in Eurasia | Markowitz, Lawrence | The University of Kansas (Prime: Department of Defense) | \$ 50,000 | \$ 15,517 |
| NJ Geographic Alliance Operating Grant 2016-2017 | Somdahl-Sands, Katrinka | National Geographic Society | \$ 27,500 | \$ - |

Law and Justice

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|--|----------------|------------------|
| New Jersey State Police Statewide Gang Assessment | Sorg, Evan | New Jersey State Police (Prime: U.S. Dept. of Justice) | \$ 48,576 | \$ - |

History

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|------------------------------|------------------------|--------------------------------------|----------------|------------------|
| Megan M. Giordano Fellowship | Carrigan, Bill | Gloucester County Parks & Recreation | \$ 47,803 | \$ - |

Proposals

Political Science & Economics

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|--|------------------|
| Early Presidential Speeches and Remarks | Pluta, Anne | National Archives and Records Administration | \$ 68,736 |

Law and Justice

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---------------------------------|------------------|
| Rowan-New Jersey State Police Smart Policing Initiative | Sorg, Evan | New Jersey State Police | \$ 206,196 |
| Rowan-SEPTA Smart Policing Initiative | Sorg, Evan | Septa Transit Police Department | \$ 263,565 |
| NIJ Research to Improve Officer Decision-making | Lewandowski, Carla | US Department of Justice | \$ 338,018 |

Engineering / SJTP Proposals Continued

Mechanical Engineering

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|-------------------------|---|------------------|
| Arduino Boot Camp: The ABCs of Hands-On Computer Science and Engineering | Constans, Eric | National Science Foundation | \$ 388,058 |
| Elevated Temperature Effects on the Self-Ignition and Deflagration Potential of Pressurized Hydrocarbon Releases | Haas, Francis | American Chemical Society-Petroleum Research Fund | \$ 110,000 |
| Wand Design and Reverse Engineering Project for Princeton Securities Technologies | Kadlowec, Jennifer | Princeton Security Technologies, LLC | \$ 14,269 |
| P&G proposal | Osta, Anu | Procter Gamble | \$ 9,995 |
| Orthopaedic Implants with Antimicrobial Properties | Ranganathan, Shivakumar | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Collaborative Research: An acoustic bubble-enabled microfluidic sensing platform for quick sepsis diagnosis | Xue, Wei | National Science Foundation | \$ 161,438 |
| Polymer Nanocomposites with Enhanced Dielectric Strength and Reduced Thermal Contraction for Superconductor Cables | Xue, Wei | US Department of Defense | \$ 450,000 |
| Wearable Blood Pressure Monitors for Smart Health | Xue, Wei | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Smartphone-Enabled Wearable Electronic Fetal Monitors for Antenatal and Intrapartum Applications | Haas, Francis | Bill Melinda Gates Foundation | \$ 100,000 |

Engineering / SJTP Awards (continued)

Civil & Environmental Engineering cont.

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|-------------------------|--|----------------|------------------|
| Implementation of Unmanned Aerial Systems (UAS) for Water Resource Management | Nazari, Rouzbeh | American Water | \$ 32,553 | \$ 6,511 |
| HVS Evaluation of Flexible Overlays on Composite Pavement | Mehta, Yusuf | NJ Department of Transportation (Prime: U.S. Department of Transportation) | \$ 317,578 | \$ 98,559 |
| Evaluation of Quality of Road for Sussex County | Mehta, Yusuf | Advanced Infrastructure Design | \$ 3,000 | \$ 1,000 |
| HVS Evaluation of Flexible Overlays on Composite Pavement | Mehta, Yusuf | NJ Department of Transportation (Prime: U.S. Dept. of Transportation) | \$ 167,320 | \$ 1,006 |
| 2017 National Summer Transportation Institute (NSTI) Youth Program | Mehta, Yusuf | NJ Department of Transportation | \$ 50,680 | \$ 4,328 |
| Implementation Plan for Alternatives to Nuclear Density Testing | Mehta, Yusuf | NJ Department of Transportation | \$ 34,892 | \$ 6,978 |
| Evaluation of absorption of COVANTA aggregates | Mehta, Yusuf | COVANTA | \$ 90,000 | \$ 28,667 |
| Intelligent Transportation Systems Resource Center (ITSRC) | Bhavsar, Parth | New Jersey Institute of Technology (Prime: NJ Dept. of Transportation) | \$ 124,994 | \$ 41,665 |
| Facility Maintenance Internship Project | Everett, Jess | NJ Dept. of Military and Veteran Affairs | \$ 216,341 | \$ 54,127 |
| Impact-Based Decision Making Framework for Community-based Resiliency Planning under Extreme Storm Events | Nazari, Rouzbeh | Nazari, Rouzbeh | \$ 800,052 | \$ 7,921 |
| Investment for Expansion of Center for Research and Education in Advanced Transportation Engineering Systems (CREATEs) at Rowan University | The State of New Jersey | Mehta, Yusuf | \$ 2,000,000 | \$ - |

Electrical & Computer Engineering

| Title | Principle Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|--|------------------------|---|----------------|------------------|
| Engaging In Stem Education With Big Data Technologies: A Rowan-Cove Initiative | Bouaynaya, Nidhal | National Science Foundation | \$ 299,930 | \$ 84,392 |
| Visualization of unmanned aircraft systems (UAS) within a CAVE Virtual Reality Environment : A Feasibility Project | Bouaynaya, Nidhal | Federal Aviation Administration | \$ 19,505 | \$ 6,501 |
| MemSat Development | Shin, Sangho | Rutgers, The State University of New Jersey (Prime: NASA) | \$ 25,000 | \$ - |

Engineering / SJTP Awards & Proposals

ExEEd

| Title | Principle Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|-----------------------------|----------------|------------------|
| Collaborative Research: Experiential Process Safety Training for Chemical Engineers | Bodnar, Cheryl | National Science Foundation | \$ 203,321 | \$ 67,774 |

Mechanical Engineering

| Title | Principal Investigator | Sponsor | Awarded Amount | Indirect Awarded |
|---|------------------------|--------------------------------------|----------------|------------------|
| Team-Based Projects to Improve Student Design Experience | Kadlowec, Jennifer | National Institutes of Health | \$ 43,200 | \$ 3,200 |
| Electronic Skin (E-skin) Patch for Monitoring Heart Rate and Respiration Rate | Xue, Wei | New Jersey Health Foundation, Inc. | \$ 24,000 | \$ - |
| NSF-MRI: Acquisition of a Scanning Electron Microscope for Research and Education | Xue, Wei | National Science Foundation | \$ 451,500 | \$ - |
| Wand Design and Reverse Engineering Project for Princeton Securities Technologies | Kadlowec, Jennifer | Princeton Security Technologies, LLC | \$ 14,269 | \$ 2,854 |
| Wearable Blood Pressure Monitors for Smart Health | Xue, Wei | New Jersey Health Foundation, Inc. | \$ 35,000 | \$ - |

Proposals

Biomedical Engineering

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|------------------------------------|------------------|
| Robossis: femur fracture robot | Abedin Nasab, Mohammad | TechMah | \$ 75,359 |
| Post-drawing polymer nanofibers: Applying a fundamental fiber manufacturing process to nanofabrication | Beachley, Vincent | National Science Foundation | \$ 500,000 |
| CAREER: Using fluid dynamics to investigate and treat central nervous system pathology | Galie, Peter | National Science Foundation | \$ 499,965 |
| Establishing a mechanistic link between cerebral blood flow and the blood-brain barrier | Galie, Peter | American Heart Association | \$ 214,089 |
| Planaria as a high-throughput screening tool for assessing neurodevelopmental toxicity of BPA and BPA substitutes | Staeble, Mary | National Institutes of Health | \$ 394,500 |
| REU Site: Biomedical Materials, Devices, Therapeutics, and Emerging Frontiers | Staeble, Mary | National Science Foundation | \$ 392,745 |
| Robossis: Femur Fracture Robot | Abedin Nasab, Mohammad | New Jersey Health Foundation, Inc. | \$ 35,000 |

Engineering / SJTP Proposals Continued

Electrical & Computer Engineering

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---|------------------|
| An incremental-learning framework to analyze and curate global, heterogeneous metagenomic data | Polikar, Robi | National Science Foundation | \$ 272,205 |
| Acquisition of Direct Metal Laser Sintering Apparatus | Schmalzel, John | US Department of Defense | \$ 1,398,592 |
| CAREER: Memristors-Based Resistive Logic Arrays for Next-Generation Nonvolatile Nano Computing | Shin, Sangho | National Science Foundation | \$ 539,965 |
| Collaborative Research: Enhancing STEM Education with Machine Learning Applications: A University-Industry Cooperative Strategy | Ramachandran, Ravi | National Science Foundation | \$ 119,786 |
| Securing Wireless Networks by Free-Space Optical Stealth Communications for Cyber Physical Systems | Wu, Ben | National Science Foundation | \$ 399,148 |
| Integrating Smart Grid and Renewable Energy Systems into the Undergraduate Curriculum and through K-12 | Bouaynaya, Nidhal | National Science Foundation | \$ 123,036 |
| Radiomics for Multiple Sclerosis | Bouaynaya, Nidhal | National Institutes of Health | \$ 80,509 |
| 2017 Keysight Early Career Professor Award | Shin, Sangho | Keysight Technologies | \$ 100,000 |
| MemSat Development - Phase II | Shin, Sangho | Rutgers, The State University of New Jersey | \$ 25,000 |
| SPARC (Systematic Problem Solving & Algorithmic Reasoning for Children) | Tang, Ying | National Science Foundation | \$ 1,249,922 |
| Joining the Dots: from Data Streams to Activity Recognition, Anytime Anywhere | Bouaynaya, Nidhal | Samsung | \$ 99,182 |
| Non-Academic Research Internships for Graduate Students (INTERN) Supplemental Funding | Bouaynaya, Nidhal | National Science Foundation | \$ 34,500 |

ExEEd

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|-----------------------------|------------------|
| Collaborative Research: Experiential Process Safety Training for Chemical Engineers | Bodnar, Cheryl | National Science Foundation | \$ 203,405 |
| Ideas at Play: Instilling an Entrepreneurial Mindset through Experiential Activities | Bodnar, Cheryl | National Science Foundation | \$ 597,744 |
| GPS-PACS (Generating Proficiency in Spatial Skills-Promoting Access to Careers in STEM) | Farrell, Stephanie | National Science Foundation | \$ 530,548 |
| Understanding Value in Engineering Entrepreneurship Programs | Hixson, Cory | National Science Foundation | \$ 335,905 |
| Collaborative Research: "Engineers are Weird:" Understanding the role of engineering culture on student motivation | Nelson, Katherine | National Science Foundation | \$ 212,940 |
| Innovating for Accessibility: Leveraging Product Design for the Common Good | Bodnar, Cheryl | Venture Well | \$ 5,000 |
| EAGER: Developing a Consortium Model for the Successful Implementation of the Rising Engineering Education Faculty Experience (REEFE) | Hixson, Cory | National Science Foundation | \$ 13,854 |

Engineering / SJTP Proposals Continued

Civil and Environmental Engineering cont.

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|--|------------------|
| Evaluation of absorption of COVANTA aggregates | Mehta, Yusuf | COVANTA | \$ 2,000 |
| Evaluation of Quality of Road for Sussex County | Mehta, Yusuf | Advanced Infrastructure Design | \$ 10,500 |
| MRI: Acquisition of Atomic Force Microscope (AFM) For Research, Training and Education | Mehta, Yusuf | National Science Foundation | \$ 312,491 |
| Development of Innovative Materials and Methods to Solve DoD Horizontal Infrastructure challenges in Cold Regions | Mehta, Yusuf | US Department of Defense | \$ 2,000,000 |
| Development of Multi-Scale Non-Invasive In Situ and Remote Sensing Techniques for Proactive Waste Management: Demonstration and Training | Nazari, Rouzbeh | U.S. Dept. of Agriculture | \$ 195,483 |
| An Innovative High Resolution Impact-Based Decision Making Framework for Multimodal Resiliency Planning | Nazari, Rouzbeh | National Oceanic and Atmospheric Administration (NOAA) | \$ 800,005 |
| Collaborative Proposal: Closing Missing Links in Understanding the Effect of Multi-Scale Particle Morphology on Soil Behavior | Sukumaran, Beena | National Science Foundation | \$ 240,359 |
| FY17-18 CREATES Request | Mehta, Yusuf | The State of New Jersey | \$ 2,000,000 |
| 2017 National Summer Transportation Institute (NSTI) Youth Program | Mehta, Yusuf | NJ Department of Transportation | \$ 75,470 |
| Rail Freight Assistance Program Grant Application Reevaluation | Ali, Ayman | NJ Department of Transportation | \$ 352,834 |
| Implementation Plan for Alternatives to Nuclear Density Testing | Mehta, Yusuf | NJ Department of Transportation | \$ 98,855 |
| Evaluation of Precast Pavement Systems and Cast In-Place | Mehta, Yusuf | NJ Department of Transportation | \$ 929,170 |
| Integration of SHRP2 in Civil Engineering Curriculum | Mehta, Yusuf | US Department of Transportation | \$ 12,498 |

Engineering / SJTP Proposals

Biomedical Engineering cont.

| Title | Principal Investigator | Sponsor | Requested Amount |
|---|------------------------|---------------------------------------|------------------|
| High Strength/Highly Porous Nanofiber Grafts for Ligament Regeneration | Beachley, Vincent | New Jersey Health Foundation, Inc. | \$ 35,000 |
| A continuous manufacturing platform for investigating polymer nanofiber post-drawing mechanics and developing low cost high performance carbon nanofibers | Beachley, Vincent | NAVY | \$ 447,952 |
| Contribution of altered shear stress and propofol to blood-brain barrier disruption in models of post-operative delirium | Galie, Peter | National Institutes of Health | \$ 322,127 |
| Spinal cord recovery after implantation of a vascularized scaffold | Galie, Peter | Alzheimer's Association | \$ 34,838 |
| The role of vascular wall pulsation in amyloid beta transport and clearance | Galie, Peter | NJ Commission on Spinal Cord Research | \$ 149,876 |
| Cancer Detection at molecular level using nanopores | Shim, Jiwook | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Comparative Analysis of Molecular Mechanisms of Neuroregeneration for Assessing Planaria's Utility as a Model of Neurodevelopment | Staeble, Mary | New Jersey Health Foundation, Inc. | \$ 35,000 |
| Implantation of pre-vascularized scaffolds for spinal cord regeneration | Galie, Peter | NJ Commission on Spinal Cord Research | \$ 199,885 |
| Robossis: Orthopedic Surgical Robot | Abedin Nasab, Mohammad | University City Science Center | \$ 100,000 |
| REU Supplement for Summer Undergraduate Researchers | Beachley, Vincent | National Science Foundation | \$ 15,900 |
| Probing mechanotransduction of disturbed flow in brain vasculature | Galie, Peter | National Science Foundation | \$ 298,920 |
| Transplanting pre-vascularized scaffolds to repair spinal cord injury | Galie, Peter | National Institutes of Health | \$ 319,680 |
| A Surgical Robot for Long Bone Fracture | Abedin Nasab, Mohammad | National Institutes of Health | \$ 385,222 |
| Novel In-Situ Forming Biodegradable Nanogels Killing Myo/Nog Cells in the Lens to Prevent the Fibrotic Disease called Posterior Capsule Opacification (PCO) | Byrne, Mark | The Cooper Foundation | \$ 93,198 |
| Altered shear stress and propofol disrupt the blood-brain barrier in elderly patients of post-operative delirium | Galie, Peter | National Institutes of Health | \$ 337,500 |
| Nanopore-based Investigation of DNA Methylation as Biomarker for Cancer Diagnostics | Shim, Jiwook | National Institutes of Health | \$ 449,627 |

Engineering / SJTP Proposals Continued

Chemical Engineering

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|--|------------------|
| CAREER: Leveraging Game-Based Learning to Build Intrinsically Motivated Engineers | Bodnar, Cheryl | National Science Foundation | \$ 501,461 |
| HELIOS 3-D Solar Thermal Collector | Dahm, Kevin | Helios LLC | \$ 3,000 |
| Efficacy of liquid esters in preventing the crystallization of UV filters in sunscreen formulation | Savelski, Mariano | INOLEX | \$ 219,855 |
| Camille and Henry Dreyfus Environmental Chemistry Fellow - Synthesis & Toxicology Studies of Renewable BPA & MDA Alternatives | Stanzione, Joseph | The Camille Henry Dreyfus Foundation, Inc. | \$ 120,000 |
| A University-Industry Partnership for a Journey into Machine Learning and Big Data: A Thrilling STEM Adventure for K-5, Middle and High School Students | Dahm, Kevin | National Science Foundation | \$ 592,496 |
| NSF MSN: SusChEM: Lignin-Based Polymer Electrolytes for Lithium-Ion Batteries | Stanzione, Joseph | National Science Foundation | \$ 504,660 |
| Novel Multi-Targeted Healing Approach to the Treatment of Low Back Pain | Vernengo, Jennifer | US Department of Defense | \$ 499,977 |
| Media Loss Minimization in Filtration Operations | Gephardt, Zenaida | Hungerford and Terry, Inc. | \$ 12,707 |
| Efficient Continuous Flow Production and Enrichment of 1,3-Propanediol | Noshadi, Iman | National Institutes of Health | \$ 392,000 |
| A Hemostatic, Injectable and Antibacterial Adhesive for Treatment of Soft Tissue Traumatic Injuries | Noshadi, Iman | National Institutes of Health | \$ 441,000 |
| Engineering a conductive and elastomeric fibrous hydrogel for cardiac tissue regeneration | Noshadi, Iman | National Institutes of Health | \$ 441,000 |
| Imidazolium Trimethyl-Phosphate Ionic Liquid Based Hollow Fiber Sorbent for Desulfurization of Crude oil | Noshadi, Iman | American Chemical Society-Petroleum Research Fund | \$ 110,000 |
| Enhancing regeneration and neuroprotection through bioengineered scaffolds secreting Chondritase ABC and neurotrophins in clinically relevant SCI animal model | Vernengo, Jennifer | NJ Commission on Spinal Cord Research | \$ 367,690 |
| Efficient Continuous Flow Production and Enrichment of 1,3-Propanediol | Noshadi, Iman | National Institutes of Health | \$ 400,886 |
| Solvent Assisted Thermal Depolymerization of Lignin for Bio-based Chemicals, High Performance Polymers and Lubricants | Stanzione, Joseph | US Department of Agriculture - Agricultural Research Service | \$ 123,681 |
| Synthesis of Bio-Based Dual-Functional Resins for Additive Manufacturing and Their Utilization in High-Performance Polymeric Composites | Stanzione, Joseph | US Air Force | \$ 450,000 |
| High Performance Polymers Research | Stanzione, Joseph | PPG | \$ 3,034,864 |
| Strategic Refining of Biomass to Afford Value-Added Products Including Expanded Polystyrene Alternatives | Stanzione, Joseph | Villanova University | \$ 199,975 |

Engineering / SJTP Proposals Continued

Civil and Environmental Engineering

| Title | Principal Investigator | Sponsor | Requested Amount |
|--|------------------------|---|------------------|
| Evaluation of "over-tightening" in structural bolts with and without direct tension indicators | Cleary, Douglas | Turnasure LLC | \$ 3,288 |
| Implementation of Dynamic Cone Penetrometer as an Alternative to Nuclear Density Testing | Mehta, Yusuf | NJ Department of Transportation | \$ 121,494 |
| Recycled Asphalt Pavement (RAP) Use in Pavement Preservation Surface Treatments | Mehta, Yusuf | US Department of Transportation | \$ 249,154 |
| Evaluation of Simulation Models for Road Weather Information System | Nazari, Rouzbeh | University Transportation Research Center | \$ 75,000 |
| Intelligent Pavement System Using Cost Effective Self Powered Wireless Piezoelectric Sensors | Bhavsar, Parth | TRB (Transportation Research Board of The National Academies) | \$ 149,068 |
| Calibration/Development of Safety Performance Functions for New Jersey | Bhavsar, Parth | NJ Department of Transportation | \$ 623,105 |
| Intelligent Transportation Systems Resource Center (ITSRC) | Bhavsar, Parth | New Jersey Institute of Technology | \$ 499,987 |
| NJDOT Bridge Resource Program | Cleary, Douglas | NJ Department of Transportation | \$ 100,084 |
| Energy/ Building Information Model (BIM) Internship Program | Everett, Jess | NJ Dept. of Military and Veteran Affairs | \$ 149,808 |
| Facility Maintenance Internship Project | Everett, Jess | NJ Dept. of Military and Veteran Affairs | \$ 216,341 |
| RESETGO Research Experiences for Teachers: Schools Engineered for Tomorrow for Global Outcomes | Jahan, Kauser | National Science Foundation | \$ 599,999 |
| GOAL:COLLABORATIVE: Unraveling the connection between microstructure and rheology in pipe flow of a non-Newtonian multiphase slurry for cement-based materials | Lombay, Gilson | National Science Foundation | \$ 199,088 |
| Implementation of Unmanned Aerial Systems (UAS) for Water Resource Management | Nazari, Rouzbeh | American Water | \$ 32,553 |
| Earth SySTEM: Observing the Earth and Visualizing the Future, Preparing the Next Generation of GLOBE STEM Professionals | Nazari, Rouzbeh | National Science Foundation | \$ 2,450,000 |
| Drone/Unmanned Aircraft System (UAS) Regulations and Policies for Use in New Jersey | Nazari, Rouzbeh | Rutgers, The State University of New Jersey | \$ 60,000 |
| Long-Term Performance of Sustainable Pavements Using Ternary Blended Concrete Mixtures With Recycled Concrete Aggregates | Lombay, Gilson | US Army Corps of Engineers | \$ 500,000 |