List of Proposals Submitted
FY2018 2nd Quarter
October 1, 2017 – December 31, 2017
Volume 18.2
List of Proposals Submitted

This report provides a detailed listing of the competitive proposals (both new and renewals) submitted during the reporting quarter. The report includes all sponsored program activity (both research and education/service) that is managed by Sponsored Program Services within the Office of the Vice President for Research.

The report includes two lists of proposals: 1) by the PI’s Academic Home Department; and 2) by the Managing Department or Center/Institute.

This report includes all proposals submitted in the reporting quarter, based on the date a proposal was submitted to the sponsor and lists the total amount of requested funding for the entire project.

The proposals listed reflect the current status of data in the InfoEd research administration system as of the date the report was created. Some information related to recently submitted proposals may be incomplete while the data entry process is underway.
<table>
<thead>
<tr>
<th>College of Agriculture, Health and Natural Resources</th>
<th>45 Proposals</th>
<th>$14,859,015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agricultural and Resource Economics</strong></td>
<td>1 Proposals</td>
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<td>Nemec, Rebecca</td>
<td>USDA/National Institute of Food and Agriculture/Farm Fresh Rhode Island</td>
<td>Optimizing Local Food Outlets: Marketplace and Customer Analysis Across New England</td>
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<td><strong>Allied Health Sciences</strong></td>
<td>6 Proposals</td>
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<td>Pagoto, Sherry</td>
<td>DHHS/NIH/National Institutes of Health/Rutgers University</td>
<td>Facebook Intervention for Young Onset Melanoma Patients and Families</td>
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<tr>
<td>McCaffery, Jeanne</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Sleep and Circadian Rhythm in Adolescent Food Choices: The Role of Salivary Amylase</td>
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<td>Pagoto, Sherry</td>
<td>DHHS/NIH/National Institutes of Health/Vanderbilt University</td>
<td>Communication and Coping: Addressing Mothers' Needs to Improve Outcomes in Adolescents with T1D</td>
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<td>McCaffery, Jeanne</td>
<td>DHHS/NIH/National Institute of Diabetes and Digestive and Kidney Diseases</td>
<td>Salivary Amylase Gene (AMY1) as a Predictor of Weight and Diet in Look AHEAD and DPP</td>
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<td>Leahey, Tricia</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Using Behavioral Economics Strategies to Address Obesity in Economically disadvantaged Adults</td>
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<td>Silbart, Lawrence K</td>
<td>DHHS/NIH/National Institutes of Health/Torigen Pharmaceuticals</td>
<td>A Canine/Mouse Immuno-Oncology Pre-clinical Testing Model</td>
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<td><strong>Animal Science</strong></td>
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<td>Reed, Sarah A</td>
<td>USDA/National Institute of Food and Agriculture</td>
<td>Developing Outstanding Graduates in Animal Production through Transdisciplinary Experiential Learning Experiences</td>
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<td>D'Amico, Dennis</td>
<td>Walker (George) Milk Research Fund</td>
<td>Biocontrol of Foodborne Pathogens in Raw Milk for Cheesemaking using Novel Bacterial Antagonists</td>
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<td><strong>Extension</strong></td>
<td>4 Proposals</td>
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<tr>
<td>Wilson, Emily H</td>
<td>CT Department of Energy and Environmental Protection</td>
<td>Sea Level Affecting Affecting Marshes Model (SLAMM)</td>
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<td>Kelly, Miriah M</td>
<td>Connecticut Innovations</td>
<td>Capability-Based Innovation: Evaluating the Use of Combined Public and Private Investment to Achieve Incremental Community &amp; Economic Development Outcomes in 4 CT Communities</td>
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<td>Welch, Mary E</td>
<td>USDA/National Institute of Food and Agriculture/University of Missouri</td>
<td>Connecticut Healthy Homes 2018 - Social Media</td>
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<td><strong>Kinesiology</strong></td>
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<td>Lee, Elaine</td>
<td>DHHS/NIH/National Institutes of Health/University of South Florida</td>
<td>Carry-Over Effects of Heat Stress Exposures on Risk of Exertional Heat Illness</td>
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<td>Glenney, Susan S</td>
<td>Patient-Centered Outcomes Research Institute (PCORI)/University of Connecticut Health Center</td>
<td>3D Team Care for Cognitively Vulnerable Older Adults</td>
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<td>Lepley, Lindsey</td>
<td>DHHS/NIH/National Institutes of Health/University of Michigan</td>
<td>MIACLR: Michigan Initiative for ACL Rehabilitation</td>
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<td>Casa, Douglas J</td>
<td>Pew Charitable Trusts</td>
<td>Health Impact Project Partnership with University of Connecticut</td>
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<td>Casa, Douglas J</td>
<td>National Collegiate Athletic Association/University of North Carolina, Chapel Hill</td>
<td>National Center for Catastrophic Sport Injury Research (NCCSIR)</td>
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<tr>
<td>Taylor, Beth M</td>
<td>National Lipid Association</td>
<td>Techniques to Diagnose and Treat Statlin-Associated Muscle Symptoms</td>
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* Awards are listed according to the tenure home of the PI on each project.
## Quarterly Proposal List by Academic Home Department

<table>
<thead>
<tr>
<th>Natural Resources and the Environment</th>
<th>9 Proposals</th>
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<td><strong>PI Name</strong></td>
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<td><strong>Project Title</strong></td>
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<td>Fahey, Robert T</td>
<td>USDA/National Institute of Food and Agriculture</td>
<td>Training Forest Resources Graduates for an Exurban Forest Future</td>
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<td>Roy, Denis</td>
<td>Nunatsiavut Government (Canada)/University of Windsor</td>
<td>Developing Greenland Halibut Genomic Resources toward Long Term Monitoring, Sustainability and World-Wide Biocomplexity</td>
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<tr>
<td>Robbins, Gary A</td>
<td>DOI/United States Geological Survey</td>
<td>Use of Bacteria DNA Sequencing as a Novel Approach for Deciphering Groundwater Flow Conditions in Fractured Crystalline Bedrock</td>
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<td>Lawrence, Beth A</td>
<td>DOI/United States Geological Survey</td>
<td>Quantifying Road Salt Impacts on Forested Wetland Structure and Function in Eastern Connecticut</td>
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<tr>
<td>McKinney, Melissa A</td>
<td>Morris Animal Foundation</td>
<td>Evaluating Factors Shaping Gut Microbial Composition and Associated Immune Health in Polar Bears</td>
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<tr>
<td>McKinney, Melissa A</td>
<td>North Pacific Research Board</td>
<td>Effects of Habitat and Diet Change on Gut Microbiota, Immune Function, and Infectious Pathogens in Polar Bears</td>
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<td>Rittenhouse, Tracy A</td>
<td>CT Department of Energy and Environmental Protection</td>
<td>Bobcat Resource Selection and Movements within Exurban Development</td>
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<td>Parent, Jason R</td>
<td>Eversource</td>
<td>Evaluation of LiDAR and Alternative Technologies for Monitoring Roadside Vegetation and Utility Infrastructure - Phase III</td>
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<th>Nutritional Sciences</th>
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<td>Lee, Ji-Young</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Nutritional Transcriptomics Approach for the Role of Astaxanthin in Liver Fibrosis</td>
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<td>Blesso, Christopher N</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Dietary Sphingomyelin for the Prevention of Chronic Low-Grade Inflammation</td>
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<td>Kohan, Alison</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Determining the Role of apoC-III in the Immune System</td>
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<tr>
<td>Chun, Ock K.</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Assessment of Risk of Exposure to Estrogenic Chemicals via Capsule Coffee Consumption</td>
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<tr>
<td>Fernandez, Maria-Luz</td>
<td>USDA/National Institute of Food and Agriculture</td>
<td>Graduate Training for the Prevention of Obesity and Associated Diseases</td>
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<tr>
<td>Chun, Ock K.</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Zinc Supplementation Reduces Cadmium Burden from Environmental Tobacco Smoke and its Health Risk</td>
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<td>Biomagnification of Contaminants in Coastal Gulls and Association With the Host Virus Community and a Zoonotic Fish Parasite</td>
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<td>Levin, Milton J</td>
<td>Morris Animal Foundation</td>
<td>Analytical and Diagnostic Validation of a Biomeme Mobile/Field Platform to Rapidly Detect Influenza A Virus in Wildlife</td>
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<td>Geary, Steven J</td>
<td>NSF/National Science Foundation/Cornell University</td>
<td>Confrontion and Its Role in the Evolution of Polymorphism for Virulence in an Emerging Pathogen</td>
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<td>Szczepanek, Steven M</td>
<td>Morris Animal Foundation</td>
<td>Influence of the Microbiota on Susceptibility to Snake Fungal Disease</td>
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<td>Szczepanek, Steven M</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>The Role of the AP-1 Transcription Factors in B-cells for Long-term Pneumococcal Polysaccharide-conjugate Vaccine Responses and their Dysfunction in Sickle Cell Disease</td>
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<th>Plant Science and Landscape Architecture</th>
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<tr>
<td>Guillard, Karl</td>
<td>DOI/United States Geological Survey</td>
<td>USGS-CTIWR-2018</td>
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<tr>
<td>Legrand, Ana</td>
<td>USDA/National Institute of Food and Agriculture/University of Massachusetts, Amherst</td>
<td>Increasing Grower Adoption of Ecologically-Based Pest Management Strategies to Improve Quality and Yield of Brassica Crops</td>
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<tr>
<th>PI Name</th>
<th>Sponsor</th>
<th>Project Title</th>
<th>Submit Date</th>
<th>Total Requested Amount</th>
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<tr>
<td>Legrand, Ana</td>
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<td>Development of a Model System for Monitoring Potato Leafhopper using Remote</td>
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<td>Sensing Technology</td>
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<td>Kuzovkina-Eischen, Yulia</td>
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<td>Developing Integrated Crop Pollination Strategies for Crops Benefiting from Buzz Pollination</td>
<td>10/24/2017</td>
<td>174,696</td>
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<td>Miniutti, Peter J</td>
<td>Connecticut Innovations</td>
<td>Task 8: Vulnerability Assessments and Conceptual Design for Milford and New</td>
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<td>Ingugnati, John C</td>
<td>Cornell University</td>
<td>Exploring Methods to Enhance Biocontrol of Turfgrass Diseases in the Urban</td>
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<td>Xygalatas, Dimitrios</td>
<td>Templeton (John) Foundation/Arizona State University</td>
<td>Magic, Religion, and Trust Across Cultures</td>
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<td>Chemistry</td>
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<td>Kumar, Challa V</td>
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<td>Investigation of Stability and Catalytic Activity of Enzymes Confined Within</td>
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<td>Pores of Cellulosis Matrices</td>
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<td>Basu, Ashia K</td>
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<td>Mutagenic Mechanism of Heterocyclic Amine and Nitroaromatic Carcinogens</td>
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<td>Rotting, Gregory A</td>
<td>Gentex</td>
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<td>Ruling, James F</td>
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<td>Ultrasensitive Immunoarrays for Low Cost Multiplexed Protein Detection</td>
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<td>Brueckner, Christian</td>
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<td>Pyrrole-Modified Porphyrins - Chromophores of Basic and Applied Interests</td>
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<tr>
<td>He, Jie</td>
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<td>SusChem: Single Chain Polymer Foldamers Containing Multi-Copper Sites as Bio-Inspired Catalysts for Aerobic Hydroxylation of Phenols and Oxidation of Primary Alcohols</td>
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<td>He, Jie</td>
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<td>COLLABORATIVE RESEARCH: Quantum Dot-Metal Hybrid Photocatalysts for CO2</td>
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<td>Reduction: Synthesis, Spectroscopy and Catalysis</td>
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<td>Engineering Au-Oxide Interfaces of Mesoporous Au/Tungstate Catalysts for</td>
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<td>Highly Efficient Plasmon-Enhanced Solar Water Splitting</td>
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<td>General Electric</td>
<td>GE - Energy</td>
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<td>Adamson, Douglas</td>
<td>Rogers Corporation</td>
<td>Graphene Modified Flame Retardant Foams/Hexagonal Boron Nitride Coated</td>
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<td>48,848</td>
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<td>Polymer Films</td>
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<td>Kumar, Challa V</td>
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<td>Graphene-Armored Biological Materials</td>
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<td>Zhao, Jing</td>
<td>Johnson &amp; Johnson</td>
<td>Development of Carbon-Based Fluorescent Probes for Neuroimaging</td>
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<td>Asandei, Alexandru</td>
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<td>Architecturally Complex Main Chain Fluoropolymers</td>
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<td>Self-Assembly Thermodynamics and Kinetics of Intramolecularly Cross-linked</td>
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<td>Unimers: Synthesis, Characterization and Computer Modeling</td>
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<td>ABA Triblock Copolymer Brushes for Mesoscale Assembly</td>
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<td>Adamson, Douglas</td>
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<td>Collaborative Research: Grafting Through Mechanism for Dense and Low</td>
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<td>Dispersity Surface Initiated Polymer Brushes</td>
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<td>Rouge, Jessica</td>
<td>American Chemical Society</td>
<td>Isolation of Ribonucleic Acid-Heme Conjugates Capable of Photocatalytic</td>
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<td>Oxidation of Sulfur-Containing Hydrocarbons in Co-Solvent Systems</td>
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<tr>
<td>Guardokus, Rebecca C</td>
<td>American Chemical Society</td>
<td>Hydrocarbon Micro-Droplet Dynamics Determined through Surface Confinement of Trapped Kinetic States</td>
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<td>Suib, Steven L</td>
<td>NSF/National Science Foundation</td>
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<td>10/18/2017</td>
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<td>Material Properties of Complex Macromolecules Containing Synthetic Polyamino Acids</td>
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<td>Transition Metal Catalyzed Interconversion of Pefluoroalkyl Halides</td>
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<td>Ung, Gael W</td>
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<td>Synthesis of Spirobrihodammines as Versatile Near-Infrared Fluorophores</td>
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<td>Bagchi, Robert</td>
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<td>Garcia-Robledo, Carlos A</td>
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<td>REU Supplement: Dimensions: Collaborative Research: Biotic and Abiotic Drivers of Neotropical Plant Speciation</td>
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<td>Simon, Christine M</td>
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<td>REU Supplement: Exploring Endosymbiotic Biodiversity and Complexity in the Family Cicadidae</td>
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<td>Yarish, Charles</td>
<td>DOC/NOAA/National Marine Fisheries Service</td>
<td>Interpreting Ocean Observation System Data to Better Estimate Production, Time of Seeding and Out-Planting of Kelp</td>
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<td>Wegrzyn, Jill L</td>
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<td>Collaborative Proposal - MSB-FRA: Ecological and Evolutionary Controls Mediate Foundational Tree Species Responses to Bark Beetles, Pathogens, and Drought in the Arid Western US</td>
<td>10/16/2017</td>
<td>417,893</td>
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<td>Knutie, Sarah A</td>
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<td>Host Microbiota as a Mediator of Pollutants, Immune Responses, and Disease Risk in Frogs</td>
<td>10/27/2017</td>
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<td>Knutie, Sarah A</td>
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<td>Relationships among Microbiota, Defenses, and Introduced Parasites of Galapagos Birds</td>
<td>11/09/2017</td>
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<td>Urban, Mark C</td>
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<td>NRT-INFEWS: Building resilient landscapes for food, energy, water, and ecosystems in America's megalopolis</td>
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<td>Park Boush, Lisa</td>
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<td>Climate and Culture in the Bahamas during the Medieval Climate Organization</td>
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<td>Seth, Anji</td>
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<td>NRT: Training Leaders in Translational Research at the Nexus of Weather, Water, and Well-Being</td>
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<td>Vernal-Wright, Fiona</td>
<td>Department of Higher Education and Training Republic of South Africa/University of Fort Hare</td>
<td>Visiting Scholars from South Africa</td>
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<td>Watson, Ryan J</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>LGBQ Youth Substance Use: Subgroup Differences, Risk, and Protective Factors</td>
<td>10/16/2017</td>
<td>242,107</td>
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<td>Watson, Ryan J</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Protective and exposure factors of gender identity disclosure in transgendered and gender nonconforming (TGNC) youth</td>
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**Molecular and Cell Biology**

- 15 Proposals: $11,323,471

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<td>Survey on Impact of Post-Disaster Displacement on the Hartford Region for</td>
<td>11/17/2017</td>
<td>47,280</td>
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<td>Gordon, Jane</td>
<td>NEH/National Endowment for the Humanities</td>
<td>Translating and Preparing an English-Language Edition of Nathalie Etoke's</td>
<td>12/06/2017</td>
<td>34,422</td>
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<td>Stevenson, Ian</td>
<td>NSF/National Science Foundation</td>
<td>RT: Small: Adaptive Decoding of Noisy, Non-Stationary Neural Spiking Activity</td>
<td>11/15/2017</td>
<td>419,912</td>
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<td>Astur, Robert</td>
<td>DHHS/NIH/National Institute on Drug Abuse</td>
<td>The Effects of Nicotine on Learned Fear in Humans Using Virtual Reality</td>
<td>11/16/2017</td>
<td>160,251</td>
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<td>Markus, Etan J</td>
<td>United States-Israel Binational Science Foundation (BSF)</td>
<td>How the Social Environment is Represented in the Hippocampus along with the</td>
<td>11/21/2017</td>
<td>115,000</td>
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<td>Coppola, Marie</td>
<td>DHHS/NIH/National Institutes of Health/University of Chicago</td>
<td>From Spontaneous Sign Systems to Sign Language</td>
<td>11/20/2017</td>
<td>157,152</td>
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<td>Johnson, Blair T</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Mindfulness Interventions for Substance Abuse Disorders: Modeling Intervention</td>
<td>12/05/2017</td>
<td>440,500</td>
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<td>Gorin, Amy</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Is long-term maintenance worth the wait? Using real time data capture to</td>
<td>12/05/2017</td>
<td>440,500</td>
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<td>Eigsti, Inge-Marie</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Optimal Outcomes in ASD: Adult Functioning, Predictors, and Mechanisms</td>
<td>10/05/2017</td>
<td>3,867,116</td>
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<td>Gibbons, Frederick</td>
<td>DHHS/NIH/National Institutes of Health/University of Iowa</td>
<td>Contextual Risk and Protective Factors in Cardiovascular Disease: Mediation</td>
<td>10/04/2017</td>
<td>382,055</td>
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<td>Park, Crystal</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Machine Learning to Integrate Daily Negative Affect into Health Behavior</td>
<td>10/05/2017</td>
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<td>Chen, Chi-Ming</td>
<td>DOD/Department of Defense/Drexel University</td>
<td>Video-Enhanced Screening for ASD</td>
<td>10/10/2017</td>
<td>117,882</td>
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</table>

* Awards are listed according to the tenure home of the PI on each project.
### Quarterly Proposal List by Academic Home Department

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Sponsor</th>
<th>PI Name</th>
<th>Total Requested Amount</th>
</tr>
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<tbody>
<tr>
<td>Short Line Railroad Safety Institute Assessment Tools and Program Development</td>
<td>DOT/Federal Railroad Administration (FRA)</td>
<td>Barnes-Farrell, Janet L</td>
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<td>Regional and Temporal Ube3a Effects on Language-Related Processing in a Mouse AS Model</td>
<td>Angelman Syndrome Foundation</td>
<td>Fitch, Roslyn H</td>
<td>194,108</td>
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<td>Testing A Cognitive Model of Chronic Irritability via Simultaneous EEG and fMRI</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Burke, Jeffrey D</td>
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<td>Dynamic Modelling and Validation of Digital Cognitive Assessment Games</td>
<td>Spencer Foundation</td>
<td>Hancock, Roeland</td>
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<td>Innovative Approaches to Substance Use Treatment in College Students</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Park, Crystal</td>
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<td>Early Markers and Prediction of IDD-Related Outcomes in a Neonatal HI Model</td>
<td>DHHS/NIH/National Institute of Child Health and Human Development</td>
<td>Fitch, Roslyn H</td>
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<td>Effects of Psychological Trauma and Cognitive Appraisals on Cardiovascular Reactivity</td>
<td>American Heart Association</td>
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<td>Assessment of Discourse following TBI</td>
<td>DOD/Department of Defense</td>
<td>Coelho, Carl A</td>
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<td>Collaborative Research: Information-Based Subdata Selection Inspired by Optimal Designs of Experiments</td>
<td>NSF/National Science Foundation</td>
<td>Wang, Haiying</td>
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<td>Collaborative Research: Statistical Inference for Big Data and Rare Events Data via Optimal Subsampling</td>
<td>NSF/National Science Foundation</td>
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<td>Collaborative Research: Bayesian Multivariate Analysis of Heterogeneous, Sparse and Low-Rank Data Integration</td>
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<td>Dey, Dipak K</td>
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<td>NIDCR Small Research Grants for Oral Health Data Analysis and Statistical Method</td>
<td>DHHS/NIH/National Institute of Dental and Craniofacial Research</td>
<td>Yan, Jun</td>
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<td>Statistical Methods for Genomics Data Integration</td>
<td>DHHS/NIH/National Institute of General Medical Sciences</td>
<td>Zhang, Yuping</td>
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<td>Statistical Methods for Cancer Clinical Trials</td>
<td>DHHS/NIH/National Institute on Aging/University of North Carolina, Chapel Hill</td>
<td>Chen, Ming-Hui</td>
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<td>Statistical Methods for Meta-Analysis</td>
<td>Amgen/University of North Carolina, Chapel Hill</td>
<td>Chen, Ming-Hui</td>
<td>412,848</td>
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<td>NSF-BSF: III: Small: Information Criteria and Irregular Data-Sets</td>
<td>NSF/National Science Foundation</td>
<td>Harel, Ofer</td>
<td>479,198</td>
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<td>Collaborative Research: Statistical inference and computing for discretely observed diffusion governed by a Markov renewal process in animal movement modeling</td>
<td>NSF/National Science Foundation</td>
<td>Yan, Jun</td>
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<tr>
<td>Collaborative Research: Statistical Analysis of Partially Observed Shapes in 2 Dimensions</td>
<td>NSF/National Science Foundation</td>
<td>Harel, Ofer</td>
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### Statistics

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<tr>
<th>Proposal Category</th>
<th>Total Proposals</th>
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<tbody>
<tr>
<td>Speech, Language and Hearing Sciences</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>NEAG School of Education</td>
<td>15 Proposals</td>
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<tr>
<td>Curriculum and Instruction</td>
<td>6 Proposals</td>
<td>$7,412,688</td>
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</table>

* Awards are listed according to the tenure home of the PI on each project.

Report for Quarter Ending: 12/31/2017
Report Generated: 2/8/2018 11:31 am
| PI Name               | Sponsor                                      | Project Title                                                                 | Submit Date   | Total Requested Amount |
|----------------------|----------------------------------------------|********************************************************************************|---------------|------------------------|
| Back, Michele        | Spencer Foundation                           | Spanish Language Support Across the Curriculum: Fostering Latinx Academic Achievement and Engagement through Translanguaging | 10/31/2017    | 50,000                 |
| Wilson, Suzanne      | NSF/National Science Foundation/Rutgers University | Teacher Professional Development for Embedding Computational Thinking in Mathematics and Science High School Classes | 10/31/2017    | 749,744                |

### Educational Leadership

**McGarry, Jennifer E**
- American Athletic Conference
  - Student-Athletes and Service Learning Outcomes
  - Submit Date: 12/15/2017
  - Total Requested Amount: 10,000

**Castillo-Montoya, Milagros**
- NASA/National Aeronautics and Space Administration/University of Hartford
  - College Instructors Learning to Teach Subject Matter to Socially Diverse Students
  - Submit Date: 11/30/2017
  - Total Requested Amount: 4,000

**Kearns, Devin**
- American Athletic Conference
  - Are White Coaches Fulfilling the Culture Needs of Black Athletes?: A Study of Intercultural Communication in the American Athletic Conference
  - Submit Date: 10/12/2017
  - Total Requested Amount: 7,000

**Castillo-Montoya, Milagros**
- Spencer Foundation
  - College Instructors Learning to Teach Subject Matter to Socially Diverse Students
  - Submit Date: 11/02/2017
  - Total Requested Amount: 70,000

**Evanovich, Justin M**
- National Collegiate Athletic Association
  - Service Learning Outcomes for UConn Student-Athletes
  - Submit Date: 11/30/2017
  - Total Requested Amount: 25,000

### Educational Psychology

**Coyne, Michael D**
- ED/Institute of Education Sciences
  - MTSS Research Network - Network Lead
  - Submit Date: 10/26/2017
  - Total Requested Amount: 1,499,572

**Kearns, Devin**
- DHHS/NIH/National Institute of Child Health and Human Development/Haskins Laboratories
  - Computer-Aided and Reading Intervention using Neuroimaging of Growth (CARING)
  - Submit Date: 10/16/2017
  - Total Requested Amount: 144,305

**Challenger, Clewiston**
- American Athletic Conference
  - College Adjustment and Institutional Attachment: It's Impact on Academic Motivation Among College Students Athletics
  - Submit Date: 12/14/2017
  - Total Requested Amount: 10,000

**Kearns, Devin**
- ED/Department of Education/University of Maryland, College Park
  - Improving Content Area Literacy Instruction in Middle Schools (Project CALI)
  - Submit Date: 12/05/2017
  - Total Requested Amount: 18,163

### School of Business

**Carter, Emily**
- SBA/Small Business Administration
  - Connecticut Small Business Development Center
  - Submit Date: 11/02/2017
  - Total Requested Amount: 17,250

**Carstensen, Fred V**
- Dovetail SIP
  - Southwest Connecticut Collective Impact
  - Submit Date: 12/12/2017
  - Total Requested Amount: 17,250

### Marketing

**Kivenzor, Gregory**
- NSF/National Science Foundation
  - IGE: Transformative Role of Gamification in Graduate STEM Education
  - Submit Date: 10/25/2017
  - Total Requested Amount: 418,565

### Operations & Info Management

**Etudo, Ugochukwu O**
- DOC/Bureau of the Census/Newlight Technologies
  - Text & Data Analytics for Census Operations
  - Submit Date: 12/26/2017
  - Total Requested Amount: 60,000

### School of Engineering

**Emadi, Sharareh**
- DHHS/NIH/National Institutes of Health
  - A Self-Adjuvanted Universal Influenza Nanovaccine
  - Submit Date: 10/05/2017
  - Total Requested Amount: 3,262,728

**Feng, Bin**
- DHHS/NIH/National Institutes of Health
  - Targeting Lumbosacral DRG to Manage Visceral Pain in IBS
  - Submit Date: 10/05/2017
  - Total Requested Amount: 1,944,223

**Vanden Berg-Foels, Wendy**
- DHHS/NIH/National Institutes of Health/University of Connecticut Health Center
  - Progenitor Responses in Temporomandibular Joint Cartilage Regeneration
  - Submit Date: 10/04/2017
  - Total Requested Amount: 274,555

* Awards are listed according to the tenure home of the PI on each project.
<table>
<thead>
<tr>
<th>PI Name</th>
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<th>Project Title</th>
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<tr>
<td>Han, Martin</td>
<td>University of Southern California</td>
<td>Electrically-Tunable Ultrasound for Transcranial Neural Stimulation</td>
<td>10/09/2017</td>
<td>741,185</td>
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<td>Hoshino, Kazunori</td>
<td>DHHS/NIH/National Institutes of Health/Yale University</td>
<td>Smart Flow Sensor for a Cerebral Shunt</td>
<td>10/11/2017</td>
<td>279,113</td>
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<tr>
<td>Vanden Berg-Foels, Wendy</td>
<td>DHHS/NIH/National Institute of Dental and Craniofacial Research/University of Connecticut Health Center</td>
<td>Role of PTH on the Chondrogenic Lineage in Mandibular Condylar Cartilage</td>
<td>11/07/2017</td>
<td>14,146</td>
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<td>Chon, Ki H</td>
<td>Leidos</td>
<td>Effect of Wakefulness on Auditory Cued Visual Search</td>
<td>12/15/2017</td>
<td>66,282</td>
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<tr>
<td>Santaniello, Sabato</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Computational Models for the Investigation of Complex Neuronal Circuits in Information Encoding</td>
<td>12/15/2017</td>
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<tr>
<td>Hoshino, Kazunori</td>
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<td>Micro/Mesoscale Elastography Based on Real-Time 3D Tomography and Cantilever Force Sensing</td>
<td>11/01/2017</td>
<td>369,566</td>
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**Chemical and Biomolecular Engineering**

- **21 Proposals**
- **$5,641,211**

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<tr>
<th>PI Name</th>
<th>Sponsor</th>
<th>Project Title</th>
<th>Submit Date</th>
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<tbody>
<tr>
<td>Valla, Ioulia</td>
<td>DOE/Department of Energy/Physical Sciences</td>
<td>Low-cost Catalyst from Waste Coal Ash for Non-oxidative Conversion of Stranded Natural Gas to Commodity Chemicals</td>
<td>12/01/2017</td>
<td>38,000</td>
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<td>Cho, Yongku P</td>
<td>DHHS/NIH/National Institute of Biomedical Imaging and Bioengineering</td>
<td>High Efficiency and Stringency Ex Vivo Gene Therapy in the Central Nervous System</td>
<td>10/16/2017</td>
<td>642,125</td>
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<td>Burke, Kelly A</td>
<td>DHHS/NIH/National Institute of Biomedical Imaging and Bioengineering</td>
<td>Surgical Adhesion Formation in the Presence of Protein-Based Copolymer Barrier Films</td>
<td>10/16/2017</td>
<td>456,503</td>
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<tr>
<td>Nieh, Mu-Ping</td>
<td>NSF/MPS/Directorate for Mathematical and Physical Sciences</td>
<td>Shape-Targeting, Acid-Cleavable Nanoclusters - An Efficacious Delivery Platform for Tumors</td>
<td>11/01/2017</td>
<td>399,564</td>
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<tr>
<td>Valla, Ioulia</td>
<td>NSF/National Science Foundation</td>
<td>Biochars Derived from Food Waste for Sustainable and Clean Urban Agriculture</td>
<td>10/20/2017</td>
<td>299,995</td>
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<td>Valla, Ioulia</td>
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<td>Collaborative Research: Novel Multistep Catalytic Systems for the Controllable Transformation of Lignocellulosic Biomass to Aviation Fuels</td>
<td>10/31/2017</td>
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<tr>
<td>Ma, Wing Kui Anson</td>
<td>NSF/National Science Foundation</td>
<td>IUCRC Pre-Proposal Phase I University of Connecticut: Center for Science of Heterogeneous Additive Printing of 3D Materials (SHAP3D)</td>
<td>10/18/2017</td>
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<tr>
<td>Bollas, Georgios</td>
<td>NSF/National Science Foundation</td>
<td>Systems and Processes for the Chemical and Thermal Utilization of Stranded Natural Gas</td>
<td>10/20/2017</td>
<td>343,909</td>
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<td>Lei, Yu</td>
<td>NSF/National Science Foundation</td>
<td>Collaborative Research: A Low-Cost, &quot;Digital&quot; Biosensing Platform with Single Protein Biomarker Sensitivity</td>
<td>11/01/2017</td>
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<td>Burke, Kelly A</td>
<td>Johnson &amp; Johnson</td>
<td>Investigating Healthy to Disease State Transitions using Programmable Culture Substrates</td>
<td>10/31/2017</td>
<td>150,000</td>
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<td>Willis, Brian G</td>
<td>NSF/National Science Foundation</td>
<td>Fast Spatial Aid for Complex Optical Film Stacks</td>
<td>11/01/2017</td>
<td>371,327</td>
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<tr>
<td>Burke, Kelly A</td>
<td>NSF/MPS/Directorate for Mathematical and Physical Sciences</td>
<td>Collaborative Research: Cellular Responses to Viscoelasticity in Liquid Crystalline Networks</td>
<td>11/01/2017</td>
<td>311,566</td>
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<tr>
<td>Bollas, Georgios</td>
<td>United Technologies Corporation (UTC)</td>
<td>Robust Active Fault Detection and Isolation in Aerospace Applications of Thermal Fluid Systems</td>
<td>11/06/2017</td>
<td>130,914</td>
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<tr>
<td>Pascal, Jennifer A</td>
<td>NSF/EHR/Directorate for Education and Human Resources/Northeastern University</td>
<td>Drawn to STEM: Advancing STEM Interest and Learning Through Comics</td>
<td>11/06/2017</td>
<td>398,653</td>
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<td>Srivastava, Ranjan</td>
<td>DOE/Department of Energy/Sustainable Innovations</td>
<td>Bioelectrochemical Platform for Chemical Production</td>
<td>12/01/2017</td>
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</table>

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<tr>
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<th>Project Title</th>
<th>Submit Date</th>
<th>Total Requested Amount</th>
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<tbody>
<tr>
<td>Pascal, Jennifer A</td>
<td>NSF/National Science Foundation/Washington State University</td>
<td>IUSE:EHR: EDUC-ATE: Education Diverse Undergraduate Communities - Affordable Transport Equipment</td>
<td>12/08/2017</td>
<td>24,089</td>
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<tr>
<td>Ma, Wing Kui Anson</td>
<td>Nextflex</td>
<td>Printed Passives for FHE including Materials, Tools and Process Documentation</td>
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<tr>
<td>Bollas, Georgios</td>
<td>United Technologies Research Center</td>
<td>Development and Demonstration of Tools and Methods for Linked Data Infrastructure for Smart Manufacturing</td>
<td>12/15/2017</td>
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<td>Bollas, Georgios</td>
<td>NSF/National Science Foundation</td>
<td>IUCRC: Planning University of Connecticut: Center for Networked Embedded, Smart and Trusted Things NEStT</td>
<td>12/20/2017</td>
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<tr>
<td>Ma, Wing Kui Anson</td>
<td>NSF/National Science Foundation</td>
<td>Phase I IUCRC: University of Connecticut: Venter for Science of Heterogeneous Additive Printing of 3D Materials (SHAP3D)</td>
<td>12/20/2017</td>
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### Civil and Environmental Engineering

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<tr>
<td>Garrick, Norman W</td>
<td>DOT/Federal Highway Administration (FHA)</td>
<td>Dwight David Eisenhower Transportation Fellowship Program Graduate Fellowship - Vannesa Kello</td>
<td>12/20/2017</td>
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<td>Chrysochoou, Maria</td>
<td>NSF/National Science Foundation</td>
<td>Collaborative Research: Scalable Surface Complexation Models for Contaminant Fate and Transport</td>
<td>10/20/2017</td>
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<td>Konduri, Karthik</td>
<td>DOT/Federal Highway Administration (FHA)</td>
<td>2017 Dwight David Eisenhower Transportation Fellowship Program - Raymond Gerte</td>
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<td>Chrysochoou, Maria</td>
<td>CT Department of Economic and Community Development</td>
<td>The Connecticut Brownfields Initiative</td>
<td>12/08/2017</td>
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<td>Esmaili Zaghi, Arash</td>
<td>CT Department of Transportation</td>
<td>Adaptation of 3D Scanning Technology for High Precision Bridge Inspection</td>
<td>12/08/2017</td>
<td>248,691</td>
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<tr>
<td>Christenson, Richard</td>
<td>NSF/National Science Foundation</td>
<td>Collaborative Research: Improving Understanding of Earthquake Engineering and Seismic Protective Systems through Mobile Informal Learning</td>
<td>11/06/2017</td>
<td>871,634</td>
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<tr>
<td>Vadas, Timothy M</td>
<td>DOI/United States Geological Survey</td>
<td>Fe-OM Coprecipitation and its Effects on Bioavailability of Cu and OM to Denitrifiers</td>
<td>11/03/2017</td>
<td>8,000</td>
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<td>Nikolopoulos, Efthymios I</td>
<td>DOD/Department of Defense</td>
<td>Non-Stationarity and Its Impact on Frequency Analysis of Sub-Daily Precipitation Extremes in the United States</td>
<td>10/19/2017</td>
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<tr>
<td>Astitha, Marina</td>
<td>NSF/National Science Foundation</td>
<td>Integrating Multi-Media Environmental Datasets (Modeling Systems, In-Situ and Satellite Measurements) towards Freshwater Quality Assessment and Prediction</td>
<td>10/20/2017</td>
<td>329,694</td>
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<td>Anagnostou, Emmanouil N</td>
<td>Eversource</td>
<td>Predictive Storm &amp; Damage Modeling for Preparedness and Emergency Response Support</td>
<td>10/12/2017</td>
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<td>Bagtzoglou, Amvrossios C</td>
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<td>Evaluation of Grid Resilience Activities with a Total System Performance Assessment Model - Phase 2</td>
<td>11/29/2017</td>
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<td>Shen, Xinyi</td>
<td>Eversource</td>
<td>Evaluation of Substations Vulnerability of Flooding in Current and Climate Change Scenarios and Development of an Early Warning System - Phase II</td>
<td>11/27/2017</td>
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<tr>
<td>Anagnostou, Emmanouil N</td>
<td>Schneider Electric</td>
<td>Schneider Outage Modeling Research for US and International Electric Distribution Networks</td>
<td>12/20/2017</td>
<td>100,000</td>
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<tr>
<td>Zhang, Wei</td>
<td>DOC/NOAA/National Oceanic and Atmospheric Administration</td>
<td>A Multi-Objective Optimization and Decision Making Tool to Build Weather-Ready Coastal Communities</td>
<td>10/02/2017</td>
<td>549,791</td>
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<tr>
<td>Zhu, Jin</td>
<td>Construction Industry Institute</td>
<td>PUI-01 - Identifying and Evaluating the Impacts of Regulations throughout the Project Lifecycle</td>
<td>10/25/2017</td>
<td>26,879</td>
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* Awards are listed according to the tenure home of the PI on each project.
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<th>Submit Date</th>
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<tr>
<td>Jackson, Eric D</td>
<td>DOT/Department of Transportation/CT Department of Transportation</td>
<td>Training Opportunity for CT Law Enforcement in the Investigation of Fatal/Serious Commercial and Heavy Vehicle Crashes</td>
<td>10/19/2017</td>
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<td>Jackson, Eric D</td>
<td>/CT Department of Transportation</td>
<td>Training Opportunity for CT Law Enforcement in the Investigation of Fatal/Serious Commercial and Heavy Vehicle Crashes</td>
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<td>Kim, Jeongho</td>
<td>NSF/EHR/Directorate for Education and Human Resources/University of the Pacific</td>
<td>Increasing Student's Simulation and Modeling Skills with FE Models</td>
<td>10/13/2017</td>
<td>36,722</td>
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<td>Garrick, Norman W</td>
<td>DOT/Federal Highway Administration (FHA)</td>
<td>Dwight David Eisenhower Transportation Fellowship Program Graduate Fellowship - Lorenzo Varone</td>
<td>12/20/2017</td>
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**Computer Science and Engineering**

- **18 Proposals**
- **Total Requested Amount:** $6,110,507

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<td>Michel, Laurent D</td>
<td>Comcast Corporation</td>
<td>CSI Selected Projects 2018</td>
<td>12/15/2017</td>
<td>299,992</td>
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<tr>
<td>Khan, Mohammad M</td>
<td>NSF/National Science Foundation</td>
<td>SaTC: EDUC: Emotion and Efficacy of Gamification: Application to Altering Risky Cyber Behavior</td>
<td>12/13/2017</td>
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<td>Peters, Thomas J</td>
<td>NSF/National Science Foundation</td>
<td>Computational Mathematics of Applied Topology and Geometric Combinatorics</td>
<td>12/01/2017</td>
<td>296,595</td>
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<td>Fuller, Benjamin</td>
<td>ODNI/IARPA/Intelligence Advanced Research Projects Activity/Stealth Software</td>
<td>The PANTHEON Secure Computation System</td>
<td>11/28/2017</td>
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<td>Peters, Thomas J</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Modeling the Neurodevelopmental Impact of Hydrocephalus</td>
<td>11/16/2017</td>
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<td>Mandoiu, Ion I</td>
<td>DHHS/NIH/National Institutes of Health/Roswell Park Cancer Institute</td>
<td>Immunotherapy against Specific Products of Abnormal Splicing Events Induced by Chemotherapy</td>
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<td>Shvartsman, Alexander A</td>
<td>NSF/National Science Foundation</td>
<td>AF: Medium: Distributed Middleware with Rigorous Semantics and Security Guarantees for Stabilizing, Robust Data-Consistent Applications</td>
<td>11/15/2017</td>
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<td>Nabavi, Sheida</td>
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<td>Sparse Representation for Detecting Genomic Structural Variations</td>
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<td>Han, Song</td>
<td>NSF/National Science Foundation</td>
<td>SaTC: Core: Small: Collaborative: A Communication Framework with Verifiable Authenticity and Integrity for Resource-Constrained Industrial IoT Networks</td>
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<td>Duggirala, Parasara S</td>
<td>United Technologies-Corporate Headquarters</td>
<td>Testing Based Approaches for Validation and Verification of Cyber-Physical Systems</td>
<td>11/06/2017</td>
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<td>Russell, Alexander</td>
<td>NSF/National Science Foundation</td>
<td>SaTC: CORE: Medium: Collaborative: Theory and Practice of Cryptosystems Secure Against Subversion</td>
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**Electrical and Computer Engineering**

- **22 Proposals**
- **Total Requested Amount:** $6,931,783

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<td>DRS Technologies</td>
<td>Digital Active EMI Filter for DC/AC Three-Phase Inverters</td>
<td>12/20/2017</td>
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* Awards are listed according to the tenure home of the PI on each project.
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<td>DOE/Office of Energy Efficiency and Renewable Energy</td>
<td>Reliable, Intelligent, and Efficient Power Electronic PV Inverters (RIPE PV Inverters)</td>
<td>10/12/2017</td>
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<td>Wang, Lei</td>
<td>NSF/National Science Foundation</td>
<td>Hardware-Efficient Signal Reconstruction and Processing for Self-Organizing Embedded Systems</td>
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<td>Jain, Faquir C</td>
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<td>Cladded Quantum Dot Superlattices to Design and Fabricate Novel Lasing Diodes on Si</td>
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<td>Bar-Shalom, Yaakov M</td>
<td>Ministry of Defense (Israel)</td>
<td>Ground Vehicle Tracking with Imaging Sensors</td>
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<td>Luh, Peter B</td>
<td>NSF/National Science Foundation</td>
<td>A Revolutionary Way to Tackle Challenging MILP Problems in Power Systems through Accelerated Convergence, Formulation Tightening and Asynchronous Optimization</td>
<td>11/01/2017</td>
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<td>Bar-Shalom, Yaakov M</td>
<td>DOD/Navy/Naval Surface Warfare Center</td>
<td>Sensor Fusion for Radar and EO Sensors Indian Head</td>
<td>11/27/2017</td>
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<td>Javidi, Bahram</td>
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<td>Efficient Inexpensive Optical Cell Identification Method</td>
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<td>Biyikli, Necmi</td>
<td>NSF/MPLS/Directorate for Mathematical and Physical Sciences</td>
<td>Atomic Layer Deposition of Pristine and Doped Phase-Change Chalcogenide Alloys</td>
<td>11/01/2017</td>
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<td>Wang, Lei</td>
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<td>Compressive Sampling Based Analog Sensor Signal Encoders</td>
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<td>Chandy, John A</td>
<td>NSF/National Science Foundation</td>
<td>Risk-Based Approach to Secure Systems Modeling and Design</td>
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<td>Bar-Shalom, Yaakov M</td>
<td>DOD/Air Force Research Laboratory/Matrix Research</td>
<td>Highly-Maneouvering Obscured Target Extraction with OTHR</td>
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<td>Dani, Ashwin</td>
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<td>Learning Physics from Machines: Physics-Informed Machine Learning</td>
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<td>Dutta, Abhishek</td>
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<td>Analysis and Design of Cyber-Secure Systems: Hardware Authentication, Resilient Monitoring and Resilient Control</td>
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<td>Gupta, Shalabh</td>
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<td>Reconfigurable Aerospace Systems for Reliability and Performance</td>
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<td>Bragin, Mikhail A</td>
<td>ABB</td>
<td>Efficient Network Constrained Unit Commitment: A Parallelized Surrogate Absolute-Value Lagrangian Relations + Branch-and-Cut Approach</td>
<td>12/29/2017</td>
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<td>Zhang, Peng</td>
<td>Eversource</td>
<td>Grid-Side System Enhancements to Integrate Distributed Energy Resources (Phase II)</td>
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<td>Khan, Omer</td>
<td>NXP Semiconductors Netherlands B.V.</td>
<td>Exploring Performance, Resiliency and Safety Tradeoffs for ADAS Applications on QuaR</td>
<td>12/18/2017</td>
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**Engineering Dean**

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<td>Bozorgmanesh, Hadi</td>
<td>Connecticut Innovations</td>
<td>The Third Bridge</td>
<td>10/30/2017</td>
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<td>Wei, Mei</td>
<td>Connecticut Innovations/University of New Haven</td>
<td>Developing Entrepreneurial Talent for Connecticut</td>
<td>10/17/2017</td>
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<td>Connecticut Global Entrepreneurship Network</td>
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<td>NSF/National Science Foundation</td>
<td>Integrated Modeling and Experimental Approaches for Design and Fabrication of Novel Biodegradable Composites for Load-Bearing Bone Fixation Applications</td>
<td>10/16/2017</td>
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**Engineering Diversity Program**

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<tr>
<td>Burkey, Daniel D</td>
<td>NASA/National Aeronautics and Space Administration/University of Hartford</td>
<td>Chitosan Antimicrobial Coatings to Decrease Growth of Bacteria in the International Space Station</td>
<td>12/22/2017</td>
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<tr>
<td>Burkey, Daniel D</td>
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<td>Three-Dimensional Bioprinting for Life Supporting Ecosystems in Space</td>
<td>11/24/2017</td>
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<tr>
<td>Gao, Puxian</td>
<td>NSF/National Science Foundation/Advanced Manufacturing</td>
<td>Isotropic Metallic Components Fabricated by Additive Manufacturing under Guidance of ICME</td>
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<td>Gao, Puxian</td>
<td>NSF/National Science Foundation/3D Array Technology</td>
<td>Nano-Array Structured High-Efficiency Diesel Particulate Filter</td>
<td>12/04/2017</td>
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<tr>
<td>Carter, Clive B</td>
<td>NSF/National Science Foundation</td>
<td>GOALI: Mechanisms of Lithiation and Delithiation Reactions in Layered Materials Combining TEM and Atomic Scale Modeling</td>
<td>12/05/2017</td>
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<tr>
<td>Gao, Puxian</td>
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<td>Ultralow PGM Loading Nano-array/Wash-coat Hybrid based Low Temperature Diesel Oxidation Catalysts</td>
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<td>Nakhmanson, Serge M</td>
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<td>Risk Analysis of Thermostructural Performance of Ceramic Composites</td>
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<td>Lee, Seok Woo</td>
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<td>Mechanical Properties of Metals at the Micrometer Scale in Different Environments</td>
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<td>Collaborative Research: Probing Reactivity and Stability in Nano-Array Supported Single Atom Catalysts</td>
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<td>Understanding Size and Shape Effects in Nanowire Array Supported Metal Catalysts for Heterogeneous Gas Phase Reactions</td>
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<td>Singh, Prabhakar</td>
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<td>Phase 2: Low Cost High Entropy Alloy (HEA) Anode for Distributed Reforming and Prevention of Carbon Deposition in SOFC</td>
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<tr>
<td>Nguyen, Thanh D</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Biodegradable Intracranial Pressure Sensor Based Solely on Medical Biomaterials</td>
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<td>Tasoglu, Savas</td>
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<td>Automated and Effortless Daily Health Monitoring through Urine</td>
<td>10/16/2017</td>
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<td>High-Throughput Image Cytometry: Real-Time Monitoring and Early Detection</td>
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<td>A Novel Injectable Piezoelectric Hydrogel for Osteoarthritis Treatment</td>
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<td>Sung, Chih-Jen</td>
<td>NSF/National Science Foundation/FGC Plasma Solutions</td>
<td>Plasma Assisted Combustion for Broadening Operability Characteristics of High-Shear Injectors</td>
<td>11/30/2017</td>
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<td>Lykotrafitis, George</td>
<td>DOD/Department of Defense/University of Connecticut Health Center</td>
<td>Multidisciplinary Study of Adverse Events Related to Breast Cancer Chemotherapy Agents in African American Females with Sickle Cell Trait</td>
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<td>Pasaougullari, Ugur</td>
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<td>Membranes for Electrochemical Compressors</td>
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<td>DHHS/NIH/National Institutes of Health</td>
<td>Modeling Cell Migration during Cranial Sensory System Development</td>
<td>11/16/2017</td>
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<td>Matheou, Georgios</td>
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<td>Ocean Worlds Mission Modeling and Simulation</td>
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<td>Chiu, Wilson K</td>
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<td>Pettes, Michael T</td>
<td>NSF/National Science Foundation</td>
<td>Electronic Transport in Thermodynamically Stable and Unstable Two-Dimensional Materials at Far from Mechanical Equilibrium Conditions</td>
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<td>Pettes, Michael T</td>
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<td>I-Corps: Direct Characterization of Electrothermal Properties of Roll-to-Roll-Manufactured Materials</td>
<td>11/06/2017</td>
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<td>Bruno, Claudio</td>
<td>DOD/Air Force Research Laboratory</td>
<td>Physic-Based Modeling of Turbulence at High Mach</td>
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<tr>
<td>Nguyen, Thanh D</td>
<td>NSF/MPS/ Directorate for Mathematical and Physical Sciences</td>
<td>Biodegradable and Biocompatible Piezoelectric Polymer Based on &gt;&gt; Magnetic Nano-Composite</td>
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<td>Pettes, Michael T</td>
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<td>Emergent Single Photon Phenomena in Layered Materials</td>
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<td>Nguyen, Thanh D</td>
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<td>EFRI - C 3 SoRo: Bionic Regenerative Engineering</td>
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<td>Lykotrafitis, George</td>
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<td>Multiphysics of Collective Cell Migration During Cranial Sensory System Development</td>
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<td>Tasoglu, Savas</td>
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<td>Droplet-Based 3D Printing of Single-Injection Drug-Delivery Vehicles</td>
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<td>Pettes, Michael T</td>
<td>NSF/National Science Foundation</td>
<td>Collaborative Research: A New Route to Non-Diffusive Thermal Transport Realized through Persistent Micelle Templating</td>
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<td>Li, Ying</td>
<td>NSF/National Science Foundation/American Chemical Society</td>
<td>Fundamental Insights into Molecular Selectivity of Synthetic Membranes through Molecular Simulations</td>
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<td>Fan, Tai-Hsi</td>
<td>NSF/National Science Foundation</td>
<td>Prediction of Surface Defects due to Incomplete Fusion of Powders During Selective Laser Melting Process</td>
<td>10/20/2017</td>
<td>322,417</td>
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<td>Tasoglu, Savas</td>
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<td>Glioma-on-a-chip: Probing Glioma Cell Invasion and Gliomagenesis on a Multiplexed Chip</td>
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<td>Chiu, Wilson K</td>
<td>NSF/National Science Foundation</td>
<td>The Role of 3-D Anode Microstructure During Long-Term Solid Oxide Fuel Cell Degradation</td>
<td>10/20/2017</td>
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<td>Nguyen, Thanh D</td>
<td>DHHS/NIH/National Institutes of Health/University of Connecticut Health Center</td>
<td>Harnessing Cell Adhesion Events for Regenerative Engineering</td>
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<td>Chiu, Wilson K</td>
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<td>Rapid Calculation of Open-Cell Metal Foam Three-Dimensional Structure Properties and Their Relationship to Thermal Transport</td>
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<td>Sung, Chih-Jen</td>
<td>Coordinating Research Council</td>
<td>Autoignition Study of CRC Diesel Surrogates in a Rapid Compression Machine</td>
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<td>Nguyen, Thanh D</td>
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<td>Biodegradable Piezoelectric Scaffold for Bone Regeneration</td>
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**School of Law**
- **1 Proposals** $10,000

**School of Nursing**
- **12 Proposals** $14,026,021

**Perkins, Lisa E**
- DOTR/Internal Revenue Service
  - Low Income Tax Payer Clinic
    - School of Nursing
      - **12 Proposals** $14,026,021

**Polifroni, Elizabeth C**
- DHHS/NRSA/Bureau of Health Workforce
  - UConn Preparing Tomorrow’s Nurse Educators: NFLP 2018
    - School of Nursing
      - **12 Proposals** $14,026,021

**Starkweather, Angela**
- DHHS/NIH/National Institutes of Health
  - Pain Sensitivity in Low Back Pain
    - School of Nursing
      - **12 Proposals** $14,026,021

**Newlin, Kelley H**
- DAISY Foundation
  - Diabetes Self-Management, Psychosocial-Behavioral Factors, and Health Outcomes in Individuals with LADA: A Pilot Study – from LOI
    - School of Nursing
      - **12 Proposals** $14,026,021

**Cong, Xiaomei**
- DHHS/NIH/National Institute of Nursing Research
  - Center for Optimizing Symptom Management of Multiple Chronic Conditions Using Nursing-Omics Evaluation (COMMUNE)
    - School of Nursing
      - **12 Proposals** $14,026,021

* Awards are listed according to the tenure home of the PI on each project.
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<td>Baumbauer, Kyle M</td>
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<td>Targeting ASIC3 to Disrupt Nociceptor Sensitization Following Spinal Cord Injury</td>
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<td>Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) Regulation of Pain</td>
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<td>Lucas, Ruth F</td>
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<td>Effectiveness and Efficiency of Human Milk Transfer: Quantification of Velocity, Flow and Pressure</td>
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<td>Sex-Specific Genetic Determinants of IBS-Related Pain</td>
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<td>Assessing the Management of Pediatric Postoperative Pain with Genetics</td>
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<td>Synthesis of Phosphoantigens for Gamma-Delta T Cell Stimulation</td>
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<td>Balunas, Marcy J</td>
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<td>Regulation of Bioactive Metabolites in Host-Microbe Symbioses</td>
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<td>Discovering the Molecular, Cellular, and Physiological Profiles of Novel CB2 Selective Agonists</td>
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<td>Role of BTN3A1 in Phosphoantigen-Induced Cell Lysis</td>
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<td>Aneskievich, Brian J</td>
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<td>The Role of Long Non-Coding RNAs in the Regulation of Drug Metabolism</td>
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<td>Understanding Host-Symbiont Interactions: Key to Marine Chemical Ecology</td>
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<td>Bringing Fault Detection and Diagnosis (FDD) Tools into the Mainstream: Retro Commissioning and Continuous Commissioning of HVAC and Refrigeration Systems</td>
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<td>Promoting Foods to Encourage in Feeding America Food Banks</td>
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<td>A Household Food-Security Intervention to Improve Maternal-Child Nutrition and Psychosocial Outcomes Among HIV-Exposed and HIV-Unexposed Infants and their Mothers in Uganda</td>
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<td>Yue, Lixia</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Calcium signaling mechanisms in cardiac fibrosis</td>
<td>11/06/2017</td>
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<td>Loew, Leslie M</td>
<td>DHHS/NIH/National Institutes of Health/Johns Hopkins University</td>
<td>Towards real-time non-invasive imaging of functional network dynamics in human brain</td>
<td>12/07/2017</td>
<td>2,189,775</td>
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<td>Loew, Leslie M</td>
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<td>Nerve-Sparing Robot-Assisted Radical Prostatectomy Using Neuromodulation-Based Nerve Localization for Preventing Post-Operative Erectile Dysfunction</td>
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<td>Terasaki, Mark R</td>
<td>Connecticut Science Fund/Vanguard Charitable Endowment Program</td>
<td>Structural Organization of the Endoplasmic Reticulum</td>
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<td>Costa, Jessica</td>
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<td>PQ1 Molecular Mechanisms Influencing Disease Penetrance in the Setting of Germline CDC7373 Mutation</td>
<td>10/30/2017</td>
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<td>Konstorum, Anna</td>
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<td>Multiscale modeling of synergistic T cell activation for cancer immunotherapy</td>
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<td>Caromile, Leslie A</td>
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<td>Prostate Specific Membrane Antigen Regulated Pathways in Prostate Cancer</td>
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<td><strong>Community Medicine and Health Care</strong></td>
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<td>Stevens, Richard G</td>
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<td>Study of Health Impact of Fluctuating-work Time (SHIFT): A Molecular Perspective</td>
<td>10/20/2017</td>
<td>178,569</td>
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<td>Durante, Amanda J</td>
<td>DHHS/CDC/Centers for Disease Control and Prevention/CT Department of Public Health</td>
<td>Infectious Disease Epidemiology Services: Public Health Surveillance &amp; Monitoring, Advance Epidemiology</td>
<td>10/23/2017</td>
<td>47,710</td>
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<td>Kuo, Chia-Ling</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Understanding the role of ApoE2 in longevity and age-related diseases and conditions using 500,000 UK Biobank...</td>
<td>10/16/2017</td>
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* Awards are listed according to the tenure home of the PI on each project.
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<td>Schensul, Stephen L</td>
<td>DHHS/NIH/National Institutes of Health/University of Connecticut</td>
<td>Identifying Contributing Factors to the Progression of Chronic Kidney Disease of Unknown Etiology in Sri Lanka</td>
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<td>Cavallari, Jennifer M</td>
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<td>The Association Between Workplace Factors, Lifestyle Behaviors and Work Ability in Working Breast Cancer Survivors</td>
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<td>Ungemack, Jane A</td>
<td>Trinity Health/Saint Francis Hospital and Medical Center</td>
<td>UConn Evaluation of Well Being 360-Transforming Communities Initiative</td>
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<td>Ungemack, Jane A</td>
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<td>Recovery Specialist Voluntary Program (RSVP/RCM) Evaluation year 9a (Federal), 9b (State).</td>
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<td>Schensul, Stephen L</td>
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<td>Alcohol and ART Adherence: Assessment, Intervention and Modeling in India</td>
<td>11/30/2017</td>
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<td>Schensul, Stephen L</td>
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<td>Tobacco Cessation Among HIV Positive People on Antiretroviral Therapy (ART) in Urban India</td>
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<td>Gelbar, Nicholas</td>
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<td>Curriculum Development and Peer Mentoring to Improve Post-Secondary Outcomes for Student with an Autism ...</td>
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**Genetics and Developmental Biology**

- **14 Proposals** $14,631,313

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<td>Genomewide mapping of sites of RA 2-0-Methylation in Prader-Willi Syndrome</td>
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<td>Li, Yuanhao</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Molecular Regulation of Lineage Specification of The Mouse Cerebellum</td>
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<td>Mayer, Bruce J</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Integrating computational modeling and tyrosine phosphotoproteomics in cancer</td>
<td>12/08/2017</td>
<td>2,990,874</td>
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<td>Chamberlain, Stormy J</td>
<td>DHHS/NIH/National Institutes of Health/Jackson Laboratory</td>
<td>Comprehensive Mapping of Long Range Chromatin Interactions on Humans and Mouse Genomes</td>
<td>11/29/2017</td>
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<td>Beck, Christine R</td>
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<td>Mechanism of Repetitive Element Mediated Genomic Rearrangements</td>
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<td>Pinter, Stefan F</td>
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<td>Center for Epigenetic Bases of Reproductive Health and Disease</td>
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<td>Yu, Ji</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Super-resolution imaging based on reversible labeling</td>
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<td>335,955</td>
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<td>Cotney, Justin L</td>
<td>DHHS/NIH/National Institutes of Health/Emory University</td>
<td>Identification of chromatin architecture at the RUNZ1 locus that regulates bone formation and mineralization</td>
<td>11/15/2017</td>
<td>82,178</td>
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<td>Yu, Ji</td>
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<td>Using novel optogenetic approach to elucidate the role of EphB2 in synaptic plasticity and memory formation</td>
<td>11/21/2017</td>
<td>92,460</td>
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<td>Young, Erin</td>
<td>DOD/Department of Defense/University of Connecticut</td>
<td>Peripheral P2X3 expression following spinal cord injury; Potential biomarkers of risk for persistent bowel pain...</td>
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<td>Gunzl, Arthur K</td>
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<td>RNA Metabolism in Trypanosomes</td>
<td>10/19/2017</td>
<td>133,509</td>
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<td>Blinov, Mikhail</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>New Tools to stimulate the biophysics of multi-molecular clusters</td>
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<td>Chamberlain, Stormy J</td>
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<td>A novel therapeutic approach for Prader-Willi syndrome</td>
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<td>Rogina, Blanka</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Non-Autonomous Control of Aging in Drosophila</td>
<td>10/03/2017</td>
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**Immunology**

- **12 Proposals** $10,262,870

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<tr>
<td>Medvedev, Andrei E</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Mechanisms of Impaired Mycobacteria Sensing by TLR2 and TLR4 Polymorphic Variants</td>
<td>10/30/2017</td>
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<td>Medvedev, Andrei E</td>
<td>DHHS/NIH/National Institute of Allergy and Infectious Diseases</td>
<td>Long Non-Coding RNA, TLR Tolerance and Sepsis</td>
<td>10/25/2017</td>
<td>239,250</td>
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<td>Medvedev, Andrei E</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Air pollution particles, deregulation of macrophage responses and infection</td>
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<td>Adler, Adam J</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Breaking Tolerance to Induce Tumor-Specific Cytotoxic CD4 Th1 Cells</td>
<td>11/02/2017</td>
<td>1,993,750</td>
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<td>Srivastava, Pramod K</td>
<td>DHHS/NIH/National Institutes of Health/Roswell Park Cancer Institute</td>
<td>Immunotherapy against specific products of abnormal splicing events induces by chemotherapy</td>
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* Awards are listed according to the tenure home of the PI on each project.
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<td>Haynes, Laura</td>
<td>DHHS/NIH/National Institutes of Health/University of Vermont</td>
<td>Sexual dimorphism in the neonatal lung response to influenza infection</td>
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<td>Haynes, Laura</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Does the senescent environment contribute to age-related changes in T cell function?</td>
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<tr>
<td>Vella, Anthony T</td>
<td>DHHS/NIH/National Institutes of Health/CaroGen</td>
<td>Augmenting T-cell Responses of VLV-Based HBV Vaccines with Co-stimulatory Molecules</td>
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<td>103,675</td>
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<tr>
<td>Zhou, Beiyan</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>The impact of immune cells on adipose MSCs: microRNA regulation</td>
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<td>Adler, Adam J</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Test if antitumor T cells use a putative super-enhancer in the IL1RL2-IL1RL1 intergenic region to form 'innate-like'...</td>
<td>10/16/2017</td>
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<td>Haynes, Laura</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Impact of Aging and Influenza Respiratory Tract Infection on Muscle Health</td>
<td>10/26/2017</td>
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<td>Srivastava, Pramod K</td>
<td>DOD/Department of Defense/Roswell Park Cancer Institute</td>
<td>Immunotherapy Against Specific Products Of Abnormal Splicing Events Induced By Chemo-therapy</td>
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<td>Dieckhaus, Kevin D</td>
<td>DHHS/HRSA/Health Resources and Services Administration/City of Hartford, CT</td>
<td>Ryan White Part A Minority AIDS Initiative (MAI) (2 parts/funds Outpt Ambulatory and Tx Adherence)</td>
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<td>Center for Optimizing Symptom Management of Multiple Chronic Conditions Using Nursing-Omics Evaluation</td>
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<td>Dieckhaus, Kevin D</td>
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<td>Dissecting molecular mechanisms of Staphylococcus epidermidis genetic heterogeneity in infection</td>
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<td>Rosenberg, Daniel W</td>
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<td>Dietary strategies to enhance FOLFOX cancer therapies</td>
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<td>Heinen, Christopher D</td>
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<td>The selective advantage of mismatch repair loss in colonic system cells</td>
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<td>Delany, Anne M</td>
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<td>microRNAs and glucocorticoid signaling in the osteoblast lineage</td>
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<td>Robison, Julie T</td>
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<td>Microbiome plasticity &amp; pathogenicity in older adults: baselines &amp; transitions from skilled nursing care</td>
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<td>Ivanaviciene, Jurate</td>
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<td>Subcontract for services pursuant to the provision of the CMHC HIV prevention program in CDOC</td>
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<td>Prabhapkar, Kavita</td>
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<td>HIV/Hep C Co-Infection Project</td>
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<td>Systematic identification of novel inhibitors of Staphylococcus epidermidis biofilm formation in wounds and medical devices</td>
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<td>Radolf, Justin D</td>
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<td>Borrelia burgdorferi cligopeptide (Opp) transporter control of cellular homeostasis and growth</td>
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<td>Lo, Wai Hong</td>
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<td>Harnessing cell adhesion events for regenerative engineering</td>
<td>10/16/2017</td>
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<td>Lo, Wai Hong</td>
<td>DHHS/NIH/National Institutes of Health/University of Connecticut</td>
<td>Biodegradable Piezoelectric Scaffold for Bone Regeneration</td>
<td>10/05/2017</td>
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<td>Rosenberg, Daniel W</td>
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<td>Microbial-epithelial cross-talk modulates UC phenotype via DNA methylation of colon stem cells</td>
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<td>Rosenberg, Daniel W</td>
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<td>The microbiome of precancerous lesions</td>
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<td>Petry, Nancy M</td>
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<td>Improving care for opioid use disorder</td>
<td>10/02/2017</td>
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* Awards are listed according to the tenure home of the PI on each project.
### Quarterly Proposal List by Academic Home Department

<table>
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<th>PI Name</th>
<th>Sponsor</th>
<th>Project Title</th>
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#### Molecular Biology & Biophysics

- **Canson, John H**
  - DHHS/NIH/National Institutes of Health
  - Essential Functions for CGG Repeats in FMR1 RNA
  - DHHS/NIH/National Institutes of Health
  - Ubiquitin-Proteasome pathway in Cancer
  - DHHS/NIH/National Institutes of Health
  - Genetics of HSV DNA Replication
  - DHHS/NIH/National Institutes of Health
  - Role of viral and cellular recombination proteins in HSV DNA replication
  - DHHS/NIH/National Institutes of Health
  - Substrate specific USP7 inhibitors for cancer immunotherapy

#### Neuroscience

- **Baumbauer, Kyle M**
  - DHHS/NIH/National Institutes of Health
  - Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) Regulation of Pain
  - DHHS/NIH/National Institutes of Health
  - Targeting ASIC3 to disrupt nociceptor sensitization following spinal cord injury
  - DHHS/NIH/National Institutes of Health
  - Near-Infrared Gently Encoded voltage Indicators (NIR-GEVIs) for All Optical Electrophysiology (AOE)
  - National Multiple Sclerosis Society
  - The Role of C1QL1 In Oligodendrocyte Maturation
  - DHHS/NIH/National Institutes of Health
  - Embedded Ensemble Encoding

#### Orthopaedic Surgery

- **Zanotti, Stefano**
  - DHHS/NIH/National Institutes of Health
  - Role of Notch in Intervertebral Disc Degeneration
- **Laurenco, Cato**
  - NSF/National Science Foundation
  - EFRI C3 SoRo: Bioactive Soft-Robotic Bracing for Regenerative Engineering
- **Guzzo, Rosaria**
  - DHHS/NIH/National Institutes of Health
  - A patient cell-based assay to identify novel compounds for myelin regeneration
- **Laurenco, Cato**
  - DHHS/NIH/National Institutes of Health
  - Osteomimetic graphene as a cell instructive scaffold for bone regeneration
- **Canalis, Ernesto**
  - DHHS/NIH/National Institutes of Health
  - The Skeleton of Lateral Menigocele Syndrome
- **Guzzo, Rosaria**
  - National Multiple Sclerosis Society
  - Can PPMS-specific iPSCs interrogate disease-associate defects
- **Sanjay, Archana**
  - DHHS/NIH/National Institutes of Health
  - Signaling Mechanisms Regulating Osteoclast Function
- **Kumbar, Sangamesh G**
  - DOD/Department of Defense
  - Biodegradable Nanocomposites for Regeneration of Large Segmental Bone Defects

* Awards are listed according to the tenure home of the PI on each project.*

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**Report for Quarter Ending:** 12/31/2017

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<td>Sanjaya, Archana</td>
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<td>Role of PI3K Signaling in Fracture Healing</td>
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<td>Pediatrics</td>
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<td>Rosenkrantz, Ted S</td>
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<td>Early Markers and Prediction of IDD-Related Outcomes in a neonatal HI Model</td>
<td>10/30/2017</td>
<td>334,950</td>
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<td>Sayej, Wael N</td>
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<td>Investigating the role of esophageal epithelial cells as non-professional antigen presenting cells in eosinophilic...</td>
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<td>Etiology and Treatment of Alcohol Dependence</td>
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<td>Grasso, Damion J</td>
<td>Avielle Foundation/Connecticut Children's Medical Center</td>
<td>Biobehavioral Threat Reactivity as a Link to Stress-related Symptoms in Young Children Exposed to Family Violence</td>
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<td>26,550</td>
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<td>Grasso, Damion J</td>
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<td>Mapping Multi-Level Aspects of Threat Reactivity in Young Children Exposed to Intimate Partner Violence</td>
<td>11/16/2017</td>
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<td>Wang, Li Hong</td>
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<td>Effect of Stress Across the Lifespan on Brain Aging and Cognitive Decline</td>
<td>12/15/2017</td>
<td>3,528,177</td>
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<td>Ginsburg, Golda S</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>2/2 Unified Treatment of Adolescent Emotional Disorders in Community Clinics</td>
<td>12/15/2017</td>
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<td>Barry, Lisa C</td>
<td>DHHS/NIH/National Institutes of Health/University of California, San Francisco</td>
<td>Precursors of Suicide in Older Adults Transitioning from Prison to Community</td>
<td>10/12/2017</td>
<td>594,710</td>
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<td>Steffens, David C</td>
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<td>Treatment of Depression in Older Adult</td>
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* Awards are listed according to the tenure home of the PI on each project.
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University of Connecticut Health

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Report for Quarter Ending: 12/31/2017
Report Generated: 2/8/2018 11:29 am
### Quarterly Proposal List by Managing Department

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Mathematics

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**Molecular and Cell Biology**

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**Political Science**

1 Proposals $34,422

**Psychological Sciences**

12 Proposals $7,959,762

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**Speech, Language and Hearing Sciences**

2 Proposals $2,088,087

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Chemical and Biomolecular Engineering

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<td>Ma, Wing Kui Anson</td>
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<td>IUCRC Pre-Proposal Phase I University of Connecticut: Center for Science of Heterogeneous Additive Printing of 3D Materials (SHAP3D)</td>
<td>10/18/2017</td>
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<td>Drawn to STEM: Advancing STEM Interest and Learning Through Comics</td>
<td>NSF/EHR/Directorate for Education and Human Resources/Northeastern University</td>
<td>398,653</td>
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<td>IUSE:EHR: EDUC-ATE: Education Diverse Undergraduate Communities - Affordable Transport Equipment</td>
<td>NSF/National Science Foundation/Washington State University</td>
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<td>Integrating Multi-Media Environmental Datasets (Modeling Systems, In-Situ and Satellite Measurements) towards Freshwater Quality Assessment and Prediction</td>
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<td>CT Department of Economic and Community Development</td>
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<td>Increasing Student's Simulation and Modeling Skills with FE Models</td>
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<td>Non-Stationarity and Its Impact on Frequency Analysis of Sub-Daily Precipitation Extremes in the United States</td>
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<td>A Multi-Objective Optimization and Decision Making Tool to Build Weather-Ready Coastal Communities</td>
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<td>Protecting Medically Vulnerable Minority Populations in Times of Disasters: Cases of Hurricanes Harvey and Irma</td>
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<td>The PANTHEON Secure Computation System</td>
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<td>SaTC: Core: Small: Collaborative: A Communication Framework with Verifiable Authenticity and Integrity for Resource-Constrained Industrial IoT Networks</td>
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<td>SaTC: EDU: Emotion and Efficacy of Gamification: Application to Altering Risky Cyber Behavior</td>
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<td>Immunotherapy against Specific Products of Abnormal Splicing Events Induced by Chemotherapy</td>
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<td>Adaptation of 3D Scanning Technology for High Precision Bridge Inspection</td>
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<td>Ground Vehicle Tracking with Imaging Sensors</td>
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<td>Exploring Performance, Resiliency and Safety Tradeoffs for ADAS Applications on Quanz</td>
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<td>A Revolutionary Way to Tackle Challenging MILP Problems in Power Systems through Accelerated Convergence, Formulation Tightening and Asynchronous Optimization</td>
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<td>Chitosan Antimicrobial Coatings to Decrease Growth of Bacteria in the International Space Station</td>
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<td>Three-Dimensional Bioprinting for Life Supporting Ecosystems in Space</td>
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<td>Modeling Cell Migration during Cranial Sensory System Development</td>
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<td>Learning Physics from Machines: Physics-Informed Machine Learning</td>
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<td>Analysis and Design of Cyber-Secure Systems: Hardware Authentication, Resilient Monitoring and Resilient Control</td>
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<td>Bringing Fault Detection and Diagnosis (FDD) Tools into the Mainstream: Retro Commissioning and Continuous Commissioning of HVAC and Refrigeration Systems</td>
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<td>Low Income Tax Payer Clinic</td>
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### Quarterly Proposal List by Managing Department

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<td>DHHS/NIH/National Institutes of Health</td>
<td>Targeting ASIC3 to Disrupt Nociceptor Sensitization Following Spinal Cord Injury</td>
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<td>Baumbauer, Kyle M</td>
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<td>Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) Regulation of Pain</td>
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<td>Cong, Xiaomei</td>
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<td>Center for Optimizing Symptom Management of Multiple Chronic Conditions Using Nursing-Omics Evaluation (COMMUNE)</td>
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<td>Lucas, Ruth F</td>
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<td>Effectiveness and Efficiency of Human Milk Transfer: Quantification of Velocity, Flow and Pressure</td>
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<td>Diabetes Self-Management, Psychosocial-Behavioral Factors, and Health Outcomes in Individuals with LADA: A Pilot Study - from LOI</td>
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<td>Polifroni, Elizabeth C</td>
<td>DHHS/HRSA/Bureau of Health Workforce</td>
<td>UConn Preparing Tomorrow's Nurse Educators: NFLP 2018</td>
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<td>Starkweather, Angela</td>
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<td>Optimizing Chronic Low Back Pain Self-Management with Yoga</td>
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<td>Pain Sensitivity in Low Back Pain</td>
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<td>Neurophysiologiclal and transcriptomic predictors of chronic low back pain: towards precision pain management (NEAT Study)</td>
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<td>Control Over Pro-Fibrotic Signaling by the Scleroderma-Associated Gene TNIP1</td>
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<td>Bahal, Raman</td>
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<td>Site Specific Genome Editing of Hematopoietic Stem Cells for Hemophilia B Gene Therapy</td>
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<td>Next Generation Targeting of OncornRs for Pediatric Cancer Therapy</td>
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<td>Regulation of Bioactive Metabolites in Host-Microbe Symbioses</td>
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<td>Understanding Host-Symbiont Interactions: Key to Marine Chemical Ecology</td>
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<td>Development of a novel, long-acting, topical anesthetic product for pain secondary to oral mucositis and other oral ulceration</td>
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<td>Discovering the Molecular, Cellular, and Physiological Profiles of Novel CB2 Selective Agonists</td>
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**Total Requested Amount:**

- School of Nursing: $14,026,021
- School of Pharmacy: $18,701,774
- Pharmaceutical Sciences: $18,595,950

**Quarter Ending:** 12/31/2017

**Report Generated:** 2/8/2018 11:29 am
## Quarterly Proposal List by Managing Department

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<td>Synthesis and Evaluation of Tropolone Derived Compounds for Myeloma Therapy</td>
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### Pharmacy Practice

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<td>Smith, Marie A</td>
<td>The Development of Community Pharmacist - Primary Care Medication Reconciliation Toolkit for Redesigning Workflows and Communications</td>
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### School of Social Work

#### 5 Proposals | $162,219

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<td>Incarceration and Cancer-Related Outcomes</td>
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<td>Parr, Kathryn E</td>
<td>RSVP 2018</td>
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<td>Connecticut's Critical Time Investment Plus</td>
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<td>Thomas, Rebecca L</td>
<td>CT Project: Planning for the Participatory Needs Assessment of Human Trafficking Typologies and Response in Connecticut</td>
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### Academic and Service Programs

#### 1 Proposals | $28,872

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### Global Affairs

#### 1 Proposals | $28,872

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### Vice President for Research

#### 61 Proposals | $33,089,229

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<td>Quantifying Road Salt Impacts on Forested Wetland Structure and Function in Eastern Connecticut</td>
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<td>Perkins, Christopher R</td>
<td>A Quantitative Assessment of the Spatiotemporal Dynamics of Cyanobacteria and Cyanotoxins in Connecticut Lakes and Freshwater Beaches</td>
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<td>Use of Bacteria DNA Sequencing as a Novel Approach for Deciphering Groundwater Flow Conditions in Fractured Crystalline Bedrock</td>
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<td>Roy, Denis</td>
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<td>Developing Greenland Halibut Genomic Resources toward Long Term Monitoring, Sustainability and World-Wide Biocomplexity</td>
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<td>Vadas, Timothy M</td>
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<td>Fe-OM Coprecipitation and its Effects on Bioavailability of Cu and OM to Denitrifiers</td>
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<td>Butler, Lisa M</td>
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<td>A Household Food-Security Intervention to Improve Maternal-Child Nutrition and Psychosocial Outcomes Among HIV-Exposed and HIV-Unexposed Infants and their Mothers in Uganda</td>
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<td>Video-Enhanced Screening for ASD</td>
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<td>Analyzing Existing Behavioral Interventions to Reduce HIV Risk</td>
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<td>Gans-DeLuca, Kim M</td>
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<td>A Home-Based Video and Motivational Interviewing Intervention to Improve Preschoolers Diet Quality and Parental Food Parenting Practices</td>
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<td>Contextual Risk and Protective Factors in Cardiovascular Disease: Mediation through Health Behavior and Proximal Biology</td>
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<td>Glenney, Susan S</td>
<td>Patient-Centered Outcomes Research Institute (PCORI)/University of Connecticut Health Center</td>
<td>3D Team Care for Cognitively Vulnerable Older Adults</td>
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<td>Gorin, Amy</td>
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<td>Is long-term maintenance worth the wait? Using real time data capture to examine delayed discounting as a putative target of physical activity adherence in weight loss maintenance interventions</td>
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<td>Using Behavioral Economics Strategies to Address Obesity in Economically disadvantaged Adults</td>
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<td>Carry-Over Effects of Heat Stress Exposures on Risk of Exertional Heat Illness</td>
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<td>Salivary Amylase Gene (AMY1) as a Predictor of Weight and Diet in Look AHEAD and DPP</td>
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<td>Sleep and Circadian Rhythm in Adolescent Food Choices: The Role of Salivary Amylase</td>
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<td>Nemec, Rebecca</td>
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<td>Optimizing Local Food Outlets: Marketplace and Customer Analysis Across New England</td>
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<td>Pagoto, Sherry</td>
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<td>Facebook Intervention for Young Onset Melanoma Patients and Families</td>
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<td>Communication and Coping: Addressing Mothers’ Needs to Improve Outcomes in Adolescents with T1D</td>
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<td>Engineering Au-Oxide Interfaces of Mesoporous Au/Tungstate Catalysts for Highly Efficient Plasmon-Enhanced Solar Water Splitting</td>
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<td>Mechanical Properties of Metals at the Micrometer Scale in Different Environments</td>
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<td>Material Properties of Complex Macromolecules Containing Synthetic Polyamino Acids</td>
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<td>Nakhmanson, Serge M</td>
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<td>Risk Analysis of Thermostructural Performance of Ceramic Composites</td>
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<td>Nieh, Mu-Ping</td>
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<td>Shape-Targeting, Acid-Cleavable Nanoclusters - An Efficacious Delivery Platform for Tumors</td>
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<td>Strained Film Structures with Negative Thermal Expansion Materials</td>
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**Sea Grant College Program**

3 Proposals | $4,962,747

- Deguise, Sylvain | EPA/Long Island Sound Office/New York Sea Grant | New York Sea Grant Partial Support for 2017-2019 EPA LISS Research Projects (Lawrence and Whitney) | 10/31/2017 | 259,919 |
- Payne, Diana L | DOC/NOAA/National Oceanic and Atmospheric Administration | Ready, Responsive, Resilient (R3) | 12/19/2017 | 160,000 |

**Vice President for Research**

1 Proposals | $1,468,565

- Gallo, Gregory J | Connecticut Innovations | Connecticut Intercollege Partnership for Technology Transfer | 12/29/2017 | 1,468,565 |

**University of Connecticut - Storrs & Regional**

412 Proposals | $179,930,239

- School of Dental Medicine
  - 10 Proposals | $6,391,121
  - Craniofacial Sciences
    - 2 Proposals | $5,163,872
      - Yadav, Sumit | DHHS/NIH/National Institutes of Health | Progenitor Responses in Temporomandibular Joint Cartilage Regeneration | 10/05/2017 | 2,420,123 |
      - Yadav, Sumit | DHHS/NIH/National Institutes of Health | Regeneration of the Osteochondral Tissue of the Mandibular Condylar Cartilage via Novel Multi-Zonal Scaffold and ... | 10/03/2017 | 2,743,749 |
  - Oral Health and Diagnostic Sciences
    - 4 Proposals | $640,941
      - Bermudez Millan, Angela | DHHS/NIH/National Institutes of Health/Yale University | Empowering Pregnant Latinas to Increase Fruit and Vegetable Intake | 10/12/2017 | 68,146 |
      - Lalla, Rajesh V | DHHS/NIH/National Institutes of Health/Carolina Medical Center | Clinical Registry of Dental Outcomes in Head and Neck Cancer Patients | 10/30/2017 | 32,203 |
      - Lalla, Rajesh V | DHHS/NIH/National Institutes of Health/Carolina Medical Center | Clinical Registry of Dental Outcomes in Head and Neck Cancer Patients | 11/01/2017 | 490,592 |
      - Lalla, Rajesh V | International Association for Dental Research | Novel Long-Acting Topical Anesthetic Product for Oral Mucositis Pain | 12/11/2017 | 50,000 |
  - Reconstructive Sciences
    - 4 Proposals | $586,308

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<td>Bayarsaihan, Dashzeveg</td>
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<td>Dynamics of 5hmC acquisition during specification of odontoblast lineage</td>
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<td>Kalajzic, Ivo</td>
<td>DHHS/NIH/National Institute on Aging/West Virginia University Health Sciences Center</td>
<td>Osteogenesis in miniature pigs treated with I.V Bisphosphonate: Evaluation of early bone healing around titanium</td>
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<td>Pathophysiologic Mechanisms of Bisphosphonate Related Osteonecrosis of the Jaws</td>
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<td>Kelly, John R</td>
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<td>Artificial Salivary Gland Development</td>
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<td>Metabolic and Developmental Regulation by AMPK in PRKAG2-associated cardiomyopathy</td>
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<td>Center for Optimizing Symptom Management of Multiple Chronic Conditions Using Nursing-Omics Evaluation</td>
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<td>Yue, Lixia</td>
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<td>A Shox2-centric Transcriptional Pathway Controls Sinoatrial Node Development and Maturation</td>
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<td>Calcium signaling mechanisms in cardiac fibrosis</td>
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<td>Essential Functions for CGG Repeats in FMR1 RNA</td>
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<td>Loew, Leslie M</td>
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<td>High sensitivity voltage sensitive dyes for photocoustic sensing of brain electrical activity</td>
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<td>Nerve-Sparing Robot-Assisted Radical Prostatectomy Using Neuromodulation-Based Nerve Localization for Preventing Post-Operative Erectile Dysfunction</td>
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<td>Luteal cell expression of Progesterone Receptor Membrane Component-1 and 2 prevents the premature demise</td>
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<td>Structural Organization of the Endoplasmic Reticulum</td>
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<td>The selective advantage of mismatch repair loss in colonic system cells</td>
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<td>Rosenberg, Daniel W</td>
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<td>The microbiome of precancerous lesions</td>
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<td>Dietary strategies to enhance FOLFOX cancer therapies</td>
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<td>Multiscale modeling of synergistic T cell activation for cancer immunotherapy</td>
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<td>Understanding and predicting iron physiology at multiple scales - from cells to individuals</td>
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<td>Vera-Licona, Martha Paola</td>
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<td>Study of Health Impact of Fluctuating-work Time (SHIFT): A Molecular Perspective</td>
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<td>Recovery Specialist Voluntary Program (RSVP/RCM) Evaluation year 9a (Federal), 9b (State).</td>
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<td>Breaking Tolerance to Induce Tumor-Specific Cytotoxic CD4 Th1 Cells</td>
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<td>Test if antitumor T cells use a putative super-enhancer in the IL1RL2-IL1RL1 intergenic region to form 'innate-like'...</td>
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<td>The Association Between Workplace Factors, Lifestyle Behaviors and Work Ability in Working Breast Cancer Survivors</td>
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<td>Systematic identification of novel inhibitors of Staphylococcus epidermidis biofilm formation in wounds and medical devices</td>
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<td>Prabhakar, Kavita</td>
<td>DHHS/HRSA/Health Resources and Services Administration/City of Hartford, CT</td>
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<td>Radolf, Justin D</td>
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<td>Borrelia burgdorferi cligopeptide (Opp) transporter control of cellular homeostasis and growth</td>
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<td>Beznovna, Irina</td>
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<td>Ubiquitin -Proteasome pathway in Cancer</td>
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<td>Weller, Sandra K</td>
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<td>Genetics of HSV DNA Replication</td>
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<td>Role of viral and cellular recombination proteins in HSV DNA replication</td>
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<td>Srivastava, Pramod K</td>
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<td>Immunotherapy against specific products of abnormal splicing events induces by chemotherapy</td>
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<td>Srivastava, Pramod K</td>
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<td>Immunotherapy Against Specific Products Of Abnormal Splicing Events Induced By Chemotherapy</td>
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<td>Technologies for multi-cell voltage imaging at single-cell resolution</td>
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<td>Near-Infrared Genetically Encoded voltage Indicators (NIR-GEVIs) for All Optical Electrophysiology (AOE)</td>
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<td>Baumbauer, Kyle M</td>
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<td>Targeting ASIC3 to disrupt nociceptor sensitization following spinal cord injury</td>
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<td>Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) Regulation of Pain</td>
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<td>Bernstein, Leslie</td>
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<td>Identifying and Measuring Factors Limiting Binaural Auditory Processing in Normal Hearing Listeners and Listeners</td>
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<td>Guzzo, Rosaria</td>
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<td>A patient cell-based assay to identify novel compounds for myelin regeneration</td>
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<td>Guzzo, Rosaria</td>
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<td>Can PPM8-specific iPSCs interrogate disease-associate defects</td>
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<td>Martinelli, David C</td>
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<td>The Role of C1QL1 In Oligodendrocyte Maturation</td>
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<td>Traktenberg, Feliks</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Epigenetic and transcriptional regulation of axon growth and regeneration in the CNS</td>
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<td>The Skeleton of Lateral Menigocele Syndrome</td>
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**Molecular Biology & Biophysics**
- 4 Proposals: $4,283,626

**NEAG Cancer Center (SOM)**
- 2 Proposals: $717,750

**Neuroscience**
- 11 Proposals: $8,842,726

**Orthopaedic Surgery**
- 11 Proposals: $13,172,257
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<td>Kumbhar, Sangamesh G</td>
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<td>Biodegradable Nanocomposites for Regeneration of Large Segmental Bone Defects</td>
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<td>Laurencin, Cato</td>
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<td>Osteomimetic graphene as a cell instructive scaffold for bone regeneration</td>
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<td>Laurencin, Cato</td>
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<td>EFRI C3 SoRo: Bioactive Soft-Robotic Bracing for Regenerative Engineering</td>
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<td>Mazzucca, Augustus D</td>
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<td>Nukavarapu, Syam P</td>
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<td>Biodegradable Scaffold for Osteochondral Tissue Engineering</td>
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<td>Sanjay, Archana</td>
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<td>Role of PI3K Signaling in Fracture Healing</td>
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<td>Optimizing Chronic Low Back Pain Self-Management with Yoga</td>
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<td>Zanotti, Stefano</td>
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<td>Role of Notch in Intervertebral Disc Degeneration</td>
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**Pediatrics**

- 2 Proposals
- Total Requested Amount: $767,487

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<td>Rosenkrantz, Ted S</td>
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<td>Early Markers and Prediction of IDD-Related Outcomes in a neonatal HI Model</td>
<td>10/30/2017</td>
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<td>Sayej, Wael N</td>
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<td>Investigating the role of esophageal epithelial cells as non-professional antigen presenting cells in eosinophilic...</td>
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**Psychiatry**

- 11 Proposals
- Total Requested Amount: $19,546,892

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<td>Curriculum Development and Peer Mentoring to Improve Post-Secondary Outcomes for Student with an Autism ...</td>
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<td>Ginsburg, Golda S</td>
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<td>2/2 Unified Treatment of Adolescent Emotional Disorders in Community Clinics</td>
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<td>Grasso, Damion J</td>
<td>Avielle Foundation/Connecticut Children's Medical Center</td>
<td>Biobehavioral Threat Reactivity as a Link to Stress-related Symptoms in Young Children Exposed to Family Violence</td>
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<td>26,550</td>
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<td>Grasso, Damion J</td>
<td>DHHS/NIH/National Institute of Mental Health</td>
<td>Mapping Multi-Level Aspects of Threat Reactivity in Young Children Exposed to Intimate Partner Violence</td>
<td>11/16/2017</td>
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<td>Hesselbrock, Victor</td>
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<td>Etiology and Treatment of Alcohol Dependence</td>
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<td>Laubenbacher, Reinhard C</td>
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<td>Neural Architecture of Emotion Regulation, Adolescent Development and Depression</td>
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<td>Steffens, David C</td>
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<td>Treatment of Depression in Older Adult</td>
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<td>Wang, Lihong</td>
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<td>Effect of Stress Across the Lifespan on Brain Aging and Cognitive Decline</td>
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**Surgery**

- 4 Proposals
- Total Requested Amount: $2,665,443

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<td>Kreutzner, Donald L</td>
<td>Helmsley (Leona M. and Harry B.) Charitable Trust/Cell and Molecular Tissue Engineering</td>
<td>In Vivo Evaluation of Biomatrix Coatings for Glucose Sensors</td>
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Report for Quarter Ending: 12/31/2017
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<td>Kreutzer, Donald L</td>
<td>Helmsley (Leona M. and Harry B.) Charitable Trust/Wayne State University</td>
<td>Understanding Insulin Infusion Induces Tissue Injury and Developing New Therapies/Devices</td>
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<td>Smith, Phillip P</td>
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<td>Non-Autonomous Aging Detrusor as a Response to Urothelial Factors</td>
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<td>Stevenson, Christina E</td>
<td>Komen (Susan G.) Breast Cancer Foundation</td>
<td>Caring Beyond A Mammogram</td>
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**Traumatology and Emergency Medicine**

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<td>McKay, Charles</td>
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**UConn Center on Aging**

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<td>Barry, Lisa C</td>
<td>DHHS/NIH/National Institutes of Health/University of California, San Francisco</td>
<td>Precursors of Suicide in Older Adults Transitioning from Prison to Community</td>
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<td>Haynes, Laura</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Does the senescent environment contribute to age-related changes in T cell function?</td>
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<td>Haynes, Laura</td>
<td>DHHS/NIH/National Institutes of Health</td>
<td>Impact of Aging and Influenza Respiratory Tract Infection on Muscle Health</td>
<td>10/26/2017</td>
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<td>Haynes, Laura</td>
<td>DHHS/NIH/National Institutes of Health/University of Vermont</td>
<td>Sexual dimorphism in the neonatal lung response to influenza infection</td>
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<td>39,781</td>
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<td>Robison, Julie T</td>
<td>DHHS/NIH/National Institutes of Health/Jackson Laboratory</td>
<td>Microbiome plasticity &amp; pathogenicity in older adults: baselines &amp; transitions from skilled nursing care</td>
<td>12/13/2017</td>
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**Other UConn Health**

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<td>Chung, Michael S</td>
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<td>Evaluating ZNF274 as a therapeutic target for Prader-Willi Syndrome</td>
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<td>Goetjen, Alexandra M</td>
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<td>GABRA2 genetic variants and chromosome conformation in induced pluripotent stem cell-derived neural cells</td>
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<td>Inaba, Mayu</td>
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<td>Nanotube-mediated regulation of niche-stem cell signaling</td>
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<td>Kwon, Grace J</td>
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<td>Investigating the function of a highly expressed IncRNA in airway epithelium</td>
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<td>Role of Ferroportin in reducing Prostate Cancer Metastasis</td>
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<td>Neighborhood, Daily Stress, Affect Regulation, &amp; Black Male Substance Abuse</td>
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<td>Shuhaimar, Leia</td>
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<td>Hormonal Regulation of the NPR2 Guanylyl Cyclase in Bone</td>
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<td>Wasko, Nicholas J</td>
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<td>The Effects of TLR2 Tolerance on Myelin Repair and T Cell Trafficking in Mouse Models of Multiple Sclerosis</td>
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**University of Connecticut Health**

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**Grand Total**

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Report for Quarter Ending: 12/31/2017
Report Generated: 2/8/2018 11:29 am