

Awards from Federal, Massachusetts, or Municipal Entities for Calendar Year 2022 - Quarter Q2

Awarded Date	PI	Sponsor Name	Title	Obligated Total \$
4/1/2022	Kinchla, Amanda J	NATL INSTITUTE OF FOOD AND AGRICULTURE	Improving sanitation practices in food processing facilities using fluorescent visual tools	\$293,992
	Timme-Laragy, Alicia	NIH-NATIONAL INSTITUTES OF HEALTH	Activation of Nrf2 during embryonic development: mechanisms and consequences	\$488,597
4/4/2022	Chen, Jianhan	NIH-NATIONAL INSTITUTES OF HEALTH	Disordered Proteins and Dynamic Interactions in Biology and Diseases.	\$379,812
	Dhankher, Om P	NIH-NATIONAL INSTITUTES OF HEALTH	A novel strategy for arsenic phytoremediation	\$49,339
	Holcomb, Daniel E	NATIONAL SCIENCE FOUNDATION	Travel: NSF Student Travel Grant Proposal for 2022 New England Hardware Security Day (NEHWS2022)	\$5,625
	Ping, Jinglei	NIH-NATIONAL INSTITUTES OF HEALTH	Highly Integrated Nucleic-Acid Analysis Using Graphene Bioelectronics	\$187,766
4/5/2022	Ahmadjian, Christopher J	MA DEPARTMENT OF TRANSPORTATION	On-the-Job Training Supportive Services (OJT/SS) Program FFY 2021	\$101,125
	Goff, Sarah L	NIH-NATIONAL INSTITUTES OF HEALTH	The Effects of Accountable Care Organizations on Disparities in Childhood Asthma Care and Outcomes	\$519,483
4/7/2022	Bardin, Joseph C	OFFICE OF NAVAL RESEARCH	Cryogenic Circuits in Technologies for Mixed-mode Ultra Scaled Integrated Circuits (T-MUSIC) for Quantum Computing	\$149,996
	Rao, Siyuan	NIH-NATIONAL INSTITUTES OF HEALTH	Magnetic Modulation on Targeted Neural Circuits in Autism	\$249,000
4/8/2022	Bai, Peng	NATIONAL SCIENCE FOUNDATION	CAREER: Rational Design of Nanoporous Catalysts for Carbonylation Reactions	\$431,091
	Gleason, Colin J	NATIONAL AERO AND SPACE ADMINISTRATION	Rapid Discharge Estimation and SWOT Validation in Remote Areas Through UAV and Surface Observation (M. Harlan)	\$45,000
	Remage-Healey, Luke	NIH-NATIONAL INSTITUTES OF HEALTH	Rapid Estrogen Signaling in Brain Circuits that Guide Complex Behavior	\$337,162

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4/8/2022	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Targeting of Bioorthogonal Chemotherapeutic Nanozymes to Tumor-Associated Macrophages	\$311,439
4/11/2022	Henry, Dana	MA DEPARTMENT OF PUBLIC HEALTH	DPH Epi Conference and CoP Projects FY20-FY22	\$7,700
4/12/2022	Gerasimidis, Symeon	MA DEPARTMENT OF TRANSPORTATION	BIM for Transit Infrastructure: A Feasibility and Gap Assessment with Current Practices and Systems at the MBTA	\$99,997
	Kane, Brian	MA DEPARTMENT OF TRANSPORTATION	Tree Preservation and Planting for Complete Streets Development	\$89,897
4/13/2022	Hamin, Elisabeth M	NATIONAL SCIENCE FOUNDATION	SRS RN: Preparing for Just and Sustainable Climate Migration	\$149,999
	Peyton, Shelly	NIH-NATIONAL INSTITUTES OF HEALTH	UMass Amherst PREP Program	\$300,457
4/14/2022	Gervasi, Maria G	NATL INSTITUTE OF FOOD AND AGRICULTURE	Bovine sperm Ca2+ signaling and energy pathways in basic science and Assisted Reproductive Technologies (ART)	\$600,000
	Goeckel, Dennis L	NATIONAL SCIENCE FOUNDATION	Robust Covert Wireless Communications: Fundamental Limits and Algorithms	\$499,795
	Hacking, Paul A	NATIONAL SCIENCE FOUNDATION	Mirror symmetry, birational geometry, and moduli	\$239,752
	Yao, Jun	NIH-NATIONAL INSTITUTES OF HEALTH	Bioinspired mechanogating biosensors for real-time biodetection	\$162,328
4/15/2022	DiRenzo, Graziella	U.S. GEOLOGICAL SURVEY	Improving management and surveillance decisions related to white nose syndrome by accounting for imperfect detection and misclassification error	\$6,700
4/19/2022	Lu, Jiakai	NATL INSTITUTE OF FOOD AND AGRICULTURE	Innovative Structuring-Layering Technology for Large-Scale Production of Fish Analogs	\$269,960
4/20/2022	Calzetti, Daniela	NATIONAL AERO AND SPACE ADMINISTRATION	1,000 Star Formation Histories in Nearby Galaxies	\$96,960

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4/20/2022	Gerasimidis, Symeon	MA DEPARTMENT OF TRANSPORTATION	Development of Improved Inspection Techniques Using LiDAR for Deteriorated Steel Beam Ends	\$199,998
	Gleason, Colin J	NATIONAL SCIENCE FOUNDATION	CAREER: Integrating field geomorphology, remote sensing, undergraduate education, and modelling to improve understanding of Arctic hydrology	\$123,781
	Hacking, Paul A	NATIONAL SCIENCE FOUNDATION	Collaborative Research: AGNES: Algebraic Geometry NorthEastern Series	\$29,900
	Katsumata, Reika	NATIONAL SCIENCE FOUNDATION	CAREER: Understanding the Multi-Scale Dynamics of Heterogeneous Polymeric Systems	\$112,780
	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Rapid Multi-Channel Serum Profiling for Liver Disease using Fluorescent Nanosensors	\$34,384
	Spencer, Rebecca M	NIH-NATIONAL INSTITUTES OF HEALTH	Longitudinal study of sleep physiology and function across toddlerhood	\$229,745
	Sun, Yubing	NATIONAL SCIENCE FOUNDATION	CAREER: Mechanobiology of Planar Cell Polarity	\$8,000
	Tropp, Linda R	UNITED NATIONS	Enhancing IOM'S Evidence Base, Implementation and Policy Work on Community-Based Approaches to Social Mixing and Social Cohesion	\$44,500
	Zink, Michael	NATIONAL SCIENCE FOUNDATION	CC* Compute: Collaborative Next-generation Technology In the Northeast: the UMassUnity Machine (CONTINUUM)	\$399,676
4/22/2022	Henry, Dana	MA DEPT OF DEVELOPMENTAL SERVICES	DDS Ongoing Support FY22	\$17,150
	Nolden, Alissa	NIH-NATIONAL INSTITUTES OF HEALTH	Plasticity of sweet taste: importance of diet and receptor expression in taste buds	\$155,045
	Vardatira, Sharon M	MA EXEC OFC OF PUBLIC SAFETY & SECURITY	FFY2022 Seat Belt Observational Survey	\$128,870
4/25/2022	Avle, Seyram	NATIONAL SCIENCE FOUNDATION	Socio-Technical Practices of Digital Technology and Innovation	\$246,455

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4/25/2022	Karatsoreos, Ilia	NIH-NATIONAL INSTITUTES OF HEALTH	The role of endocannabinoids in circadian disruption induced metabolic dysregulation	\$40,380
	Spencer, Rebecca M	NIH-NATIONAL INSTITUTES OF HEALTH	What is sleep s role in Alzheimer s disease? Insight from healthy aging	\$460,163
4/26/2022	Cokotis, Peter J	DEFENSE LOGISTICS AGENCY	DLA Procurement Technical Assistance Program (PTAP) Option Year 2	\$484,101
	Perry-Jenkins, Maureen A	NIH-NATIONAL INSTITUTES OF HEALTH	Understanding Stress and Racial/Ethnic Health Disparities in Multiethnoracial Families	\$2,500
	Woodruff, Jonathan D	U.S. GEOLOGICAL SURVEY	Modeling the Interaction of Forest Management and Climate Change on the Spread and Impact of Non-Native Invasive Plants	\$111,623
4/27/2022	De Bruyn Kops, Stephen M	OFFICE OF NAVAL RESEARCH	Stratified Turbulence at High Dynamic Range	\$35,000
	Jentoft, Friederike C	NATIONAL SCIENCE FOUNDATION	NSF-BSF: Steering Selectivity in Aldol Reactions by Control of Relative Effective Reaction Rates in Porous Catalysts	\$55,416
	Melnik, Mark A	TOWN OF ORANGE	Town of Orange EDA Data FY22	\$2,244
4/28/2022	Siegrist, M.	NIH-NATIONAL INSTITUTES OF HEALTH	Host proteins that interact with the BCG cell envelope	\$218,307
	Willcoq, Stephane Y	U.S. DEPARTMENT OF ENERGY	High Energy Physics research on the ATLAS Experiment at the Large Hadron Collider	\$870,000
4/29/2022	Thayumanavan, Sankaran	NIH-NATIONAL INSTITUTES OF HEALTH	Protein-Induced Self-Assembly and Disassembly of Nanostructures Based on Oligomers and Polymers	\$461,729
5/4/2022	Russell, Thomas P	U.S. ARMY RESEARCH OFFICE	Adaptive Assemblies of Soft Matter at Interfaces	\$70,000
5/5/2022	Maresca, Thomas J	NIH-NATIONAL INSTITUTES OF HEALTH	Mechano-molecular regulation of kinetochore function	\$313,116

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5/5/2022	Reinhart, Peter H	MA DEPARTMENT OF PUBLIC HEALTH	Sample for SARS-CoV-2 survey of infection and response in Massachusetts	\$250,000
5/9/2022	Poudel Tandukar, Kalpana	NIH-NATIONAL INSTITUTES OF HEALTH	Reducing stress, anxiety, and depressive symptoms via a family-centered preventative intervention for immigrants: A randomized controlled feasibility trial	\$199,241
5/10/2022	Brena, Sergio F	NATIONAL INSTITUTE OF STANDARDS AND TECH	Developing a selective column retrofit framework for damaged and aging reinforced concrete buildings to improve community resilience after earthquakes	\$390,009
	Hertel, Scott A	U.S. DEPARTMENT OF ENERGY	Internal Calibration of the LZ Dark Matter Experiment	\$75,000
	Woodruff, Jonathan D	U.S. GEOLOGICAL SURVEY	University of Massachusetts Consortium to Host Cycle II of the Northeast Climate Adaption Science Center	\$766,497
5/11/2022	DiRenzo, Graziella	U.S. GEOLOGICAL SURVEY	Difficult disease decisions: how to reduce risk when dealing with multiple competing objectives and opposing risk tolerances	\$64,000
	Kumpel, Emily K	MA DEPT OF ENVIRONMENTAL PROTECTION	A Targeted Initiative to Support Safe Drinking Water within MassDEP's Drinking Water Program by Improving the Quality, Reliability, and Future Collection of Data on Drinkin..	\$425,000
	Lacreuse, Agnes C	NIH-NATIONAL INSTITUTES OF HEALTH	Impact of brain estrogens on cognition and brain aging in a non-human primate	\$45,835
	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Targeting of Bioorthogonal Chemotherapeutic Nanozymes to Tumor-Associated Macrophages	\$34,604
	Roy, Alison H	U.S. GEOLOGICAL SURVEY	Factors Influencing Freshwater Productivity of Juvenile River Herring - Doris Duke Conservation Scholars Program Mentorship	\$23,942
5/12/2022	Grabell, Adam	NIH-NATIONAL INSTITUTES OF HEALTH	Neural and behavioral correlates of deliberate emotion regulation in early childhood: testing unique links to emerging irritability	\$77,538
5/16/2022	Alfandari, Dominique R	NIH-NATIONAL INSTITUTES OF HEALTH	Mechanism of Cranial Neural Crest Cell Migration	\$361,615
	Du, Xian	NATIONAL SCIENCE FOUNDATION	CAREER: Modeling the Roll-to-Roll Lithography Printing Process Through Deep Learning and Real-time Sensing	\$15,192

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5/16/2022	Houmansadr, Amir	NATIONAL SCIENCE FOUNDATION	Collaborative Research: SaTC: CORE: Medium: Towards Secure Federated Learning	\$300,000
	Lee, Jae-Hwang	NATIONAL SCIENCE FOUNDATION	Collaborative Research: Multi-Scale Micromechanical Properties of Hierarchical Coatings and Interfaces Fabricated by Self-Limiting Electrospray Deposition	\$7,200
	ROVELLI, MARTINA	NATIONAL SCIENCE FOUNDATION	Model comparisons and foundational developments in higher category theory	\$44,990
	Xu, Guangyu	NATIONAL SCIENCE FOUNDATION	CAREER: Scalable, high-precision optoelectronic lab-on-a-chip towards next-generation precision therapeutics	\$106,807
5/17/2022	Bradley, Bethany A	U.S. GEOLOGICAL SURVEY	Developing a macroecological understanding of invasive plant impacts based on abundance and trait data	\$100,000
	Du, Xian	NATIONAL SCIENCE FOUNDATION	GOALI: Hierarchical Multimode Multiscale In-Line Metrology for Roll-to-Roll Flexible Electronics Print Process Monitoring and Control	\$15,912
	Park, Chul	NATIONAL SCIENCE FOUNDATION	Developing Irradiance-Controlled Mixing to Overcome Photoinhibition for Advancing Energy Efficient Wastewater Treatment by Oxygenic Photogranules	\$16,000
5/18/2022	Gao, Haiying	NATIONAL SCIENCE FOUNDATION	CAREER: Along-Strike Variation: A Comparative Study of Subduction Zones at Multiple Scales Using Joint Receiver Function and Tomographic Inversion	\$122,928
	Jensen, David D	U.S. ARMY RESEARCH OFFICE	Continuous Iterative Modeling and Repair in Response to Novelty (CIMARRON)	\$360,739
	Karatsoreos, Ilia	NATIONAL SCIENCE FOUNDATION	Conference: Society for Research on Biological Rhythms: From Molecules to Policy	\$22,463
	Kittilstved, Kevin R	NATIONAL SCIENCE FOUNDATION	Step-wise assembly of nanocrystal synthons for precision doping	\$441,596
	Kurland, Jacquie	NIH-NATIONAL INSTITUTES OF HEALTH	Phase III Development of a Valid, Reliable, Clinically Feasible Measure of Transactional Success in Aphasic Conversation: Modernizing Methods of Acquisition and Analysis of Discour..	\$239,250
	Metz, Ricardo B	NATIONAL SCIENCE FOUNDATION	Determining Mechanisms and Energetics of Alkane Activation and Coupling by Transition Metal Ions	\$375,000

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5/18/2022	Roy, Alison H	U.S. GEOLOGICAL SURVEY	Massachusetts Cooperative Fish and Wildlife Research Unit	\$40,000
	Lee, Jungwoo	NIH-NATIONAL INSTITUTES OF HEALTH	Implantable pre-metastatic niche to elucidate the impact of chemotherapy-induced metastatic relapse	\$351,810
5/19/2022	Riessman, Robin E	MA EXEC OFC OF PUBLIC SAFETY & SECURITY	Crash Report E-Manual: LEA Targeted Resources to Improve Crash Data Quality	\$49,194
	Thompson, Lynmarie	NIH-NATIONAL INSTITUTES OF HEALTH	Chemistry-Biology Interface Predoctoral Training Grant	\$520,372
5/20/2022	Thompson, Lynmarie	NIH-NATIONAL INSTITUTES OF HEALTH	Chemistry-Biology Interface Predoctoral Training Grant	\$520,372
5/23/2022	Yao, Jun	OFFICE OF NAVAL RESEARCH	Probing basic electronic properties in microbial protein nanowires	\$134,128
5/24/2022	Klein, Bruna M	NIH-NATIONAL INSTITUTES OF HEALTH	The Role of Autobiographical Memory in Late-Life Emotion Regulation	\$717
	Lacreuse, Agnes C	NIH-NATIONAL INSTITUTES OF HEALTH	Behavioral and Neural Indicators of Prodromal Alzheimer's Disease	\$1,234
	Muller, Mandy M	NIH-NATIONAL INSTITUTES OF HEALTH	RNA Modifications and Turnover during Viral-induced Decay	\$398,750
	Pereira Arboleya, Mariana	NIH-NATIONAL INSTITUTES OF HEALTH	Neural mechanisms preventing postpartum relapse to cocaine seeking in new mothers	\$234,795
5/25/2022	Bergan, Joseph F	NIH-NATIONAL INSTITUTES OF HEALTH	Synaptic contributions to sexually dimorphic circuit architecture	\$38,984
	Fritz-Laylin, Lillian	NIH-NATIONAL INSTITUTES OF HEALTH	Chytrid fungi and the functional specification of actin networks	\$380,930
	MacLean, Meghan G	CA DEPT OF FORESTRY AND FIRE PROTECTION	Harvested Wood Product Carbon Model - Updated Discarded Products Analysis	\$102,357
	McCormick, Stephen	AGRICULTURAL RESEARCH SERVICE	Research toward understanding photoperiod control of salmon development	\$19,690

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5/25/2022	Nobles, Carrie J	NIH-NATIONAL INSTITUTES OF HEALTH	Exposure to Ambient Air Pollution and Temperature During Spermatogenesis: Impact on Men's Reproductive Health and Infertility Treatment Outcomes	\$144,004
	Reckhow, David A	MA EXEC OFFICE OF ENERGY & ENVIRON AFF	University of Massachusetts Water and Energy Testing Facility Earmark	\$1,500,000
	Remage-Healey, Luke	NIH-NATIONAL INSTITUTES OF HEALTH	Characterizing a Circuit Linking Auditory Cortical Systems and the Social Behavior Network	\$1,240
	Tremblay, Kimberly D	NIH-NATIONAL INSTITUTES OF HEALTH	Phenotyping novel organogenesis lethal KOMP alleles	\$410,110
	Visconti, Pablo E	NIH-NATIONAL INSTITUTES OF HEALTH	Sperm Ca2+ signaling and energy pathways in basic science and ART	\$429,132
5/26/2022	Hardy, Jeanne A	NIH-NATIONAL INSTITUTES OF HEALTH	Control of Executioner Caspases with an Allosteric Switch	\$32,373
	Roy, Alison H	MA DIVISION OF FISHERIES AND WILDLIFE	Advancing Conservation and Restoration of Brook Floater and Associated Freshwater Mussels	\$265,775
5/27/2022	Ai, Chengbo	MA DEPARTMENT OF TRANSPORTATION	Development of a Salt Spreader Controller Program Using Machine-Sensed Roadway Weather Parameters	\$125,000
	Farkas, Michelle E	NIH-NATIONAL INSTITUTES OF HEALTH	Chemical Biology Approaches for Studying Circadian Rhythms	\$349,548
	Rauch, Jennifer	NIH-NATIONAL INSTITUTES OF HEALTH	Deciphering the Molecular Features Underlying LRP1-Mediated Tau Spread	\$389,245
6/1/2022	Gianelli, Jynessa D	MA DIVISION OF MARINE FISHERIES	Enabling tools to build a sustainable, equitable, and inclusive seafood marketing program	\$25,000
	Marcotte, Amanda M	COLORADO DEPT. OF EDUCATION	Comprehensive Review and Evaluation of K-3 Reading Assessments for the Colorado Department of Education	\$20,000
6/2/2022	Chen, Min	NIH-NATIONAL INSTITUTES OF HEALTH	Probing Functional States and Inhibition of Flaviviral Proteases Using Nanopore Tweezers	\$441,244

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6/3/2022	Gerasimidis, Symeon	MA DEPARTMENT OF TRANSPORTATION	Feasibility Study for 3D Printing Applications for Highway Infrastructure Construction and Maintenance	\$150,000
			Post-Fire Damage Inspection of Concrete Structures Phase III	\$180,000
	Melnik, Mark A	MA DEBT MANAGEMENT DEPARTMENT OF THE STATE TREASURER'S OFFICE	Treasury STAR 2022	\$86,250
	Xia, Qiangfei	NATIONAL SCIENCE FOUNDATION	NSF-AoF: FET: Small: Ubiquitous in-sensor computing for adaptive intelligent systems	\$16,000
6/6/2022	Crivelli, Katherine M	MA DEPARTMENT OF PUBLIC HEALTH	Comprehensive Rape Crisis Services	\$7,197
	SENA, MARK P	MA DEPARTMENT OF HIGHER EDUCATION	FY22 MAICEI Implementation/Continuation Grant	\$49,928
6/7/2022	Andrews, Lauren B	NATIONAL SCIENCE FOUNDATION	Collaborative Research: Model-guided design of bacterial interspecies interactions and trans-organismic communication in living intercellular circuits	\$668,913
	Emrick, Todd S	NATIONAL SCIENCE FOUNDATION	Designing Chemically Functionalized Polymers for Nanoscale Structures and Interfaces. CHE-2203578	\$482,500
	Hinlein, Erich S	MA DEPARTMENT OF TRANSPORTATION	Salt Remediation Program	\$5,113,661
	Sakamoto, Michael A	MASSACHUSETTS CULTURAL COUNCIL	Massachusetts Cultural Council FY22 CIP Portfolio Grant Asian Arts	\$7,600
	Sandler, Hilary A	NATL INSTITUTE OF FOOD AND AGRICULTURE	Integrating development, implementation and awareness of effective strategies and technologies to promote Specialty Crop IPM in Massachusetts	\$272,449
	Willey, Angela R	NATIONAL SCIENCE FOUNDATION	Collaborative Research: Integrating Interdisciplinary Approaches into Biology Textbooks	\$265,325
6/8/2022	Henry, Dana	MA EXECUTIVE OFFICE OF HLTH & HUMAN SVC	EOHHS Training FY22	\$5,000

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6/8/2022	Houmansadr, Amir	NATIONAL SCIENCE FOUNDATION	SaTC: CORE: Medium: Collaborative: Studying the Impact of IPv6 on Information Controls and Censorship Circumvention	\$7,500
	Muthukumar, Murugappan	NATIONAL SCIENCE FOUNDATION	Theory of polymer crystallization, melting, and interlude of metastability	\$133,000
	Parkin, Georgianna E	SMALL BUSINESS ADMINISTRATION	FY22 Massachusetts Small Business Development Center Proposal	\$2,088,295
6/9/2022	Crivelli, Katherine M	MA DEPARTMENT OF PUBLIC HEALTH	Comprehensive Rape Crisis Services	\$14,203
	Lee, Sunghoon I	NIH-NATIONAL INSTITUTES OF HEALTH	Achieving Optimal Motor Function in Stroke Survivors via a Human-Centered Approach to Design an mHealth Platform.	\$441,903
	Peyton, Shelly	NATIONAL SCIENCE FOUNDATION	Cryptic Hydrogels	\$6,000
	Pishro-Nik, Hossein	NATIONAL SCIENCE FOUNDATION	CPS: Small: Trajectory-Based Cyber Physical Networks: Theoretical Foundation and a Practical Implementation	\$8,000
6/10/2022	De La Rosa-Rivera, Natasha M	NIH-NATIONAL INSTITUTES OF HEALTH	Rethinking the neuroanatomical organization of cognition: Recognition memory in visual cortex	\$75,775
	Fissore, Rafael A	NIH-NATIONAL INSTITUTES OF HEALTH	Regulation of Ca2+ influx in mouse oocytes and eggs during maturation and fertilization to improve assisted reproductive technologies and modulate fertility	\$253,313
	Rauch, Jennifer	NIH-NATIONAL INSTITUTES OF HEALTH	Mechanisms and Consequences of TAU Internalization and Aggregation in the Central Nervous System.	\$243,215
	Telfer, Janice C	NATL INSTITUTE OF FOOD AND AGRICULTURE	The WC1 multigenic array in the immune response to zoonotic pathogens in agricultural species	\$642,000
6/13/2022	Beattie, Lynn B	MA DEPT OF AGRICULTURAL RESOURCES	The Farmers Market Nutrition Program 2022	\$5,000
	Hebert, Daniel N	NIH-NATIONAL INSTITUTES OF HEALTH	Cellular protein maturation and degradation	\$10,521

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6/13/2022	Hyers, Robert W	NATIONAL AERO AND SPACE ADMINISTRATION	Modeling and Simulation of Electrostatically Levitated Multiphase Liquid Drops	\$50,000
	Liu, Tongping	NATIONAL SCIENCE FOUNDATION	Collaborative Research: Evident: An Educational Tool for Concurrent Computer Programming	\$179,970
	Siqueira, Paul R	NATIONAL AERO AND SPACE ADMINISTRATION	SNOWWI: Snow Water-equivalent Wide Swath Interferometer and Scatterometer	\$345,000
6/14/2022	Grason, Gregory M	OFFICE OF NAVAL RESEARCH	Photomechanical Material Systems: From Molecules to Devices	\$1,500,000
	Yan, Jun	NATIONAL SCIENCE FOUNDATION	Probing moire flat bands with optical spectroscopy	\$138,931
	Yao, Jun	U.S. ARMY RESEARCH OFFICE	Interfacing Bio-amplitude Neuromorphic Devices with Cells	\$70,561
6/15/2022	Reich, Nicholas G	CENTERS FOR DISEASE CONTROL & PREVENTION	Influenza Forecasting Center of Excellence at University of Massachusetts Amherst	\$950,000
	Sela, David	NIH-NATIONAL INSTITUTES OF HEALTH	Human milk urea nitrogen is recycled by Bifidobacterium infantis to impact the emergent physiology of the infant gut microbiome	\$338,643
	Vardatira, Sharon M	MA DEPARTMENT OF PUBLIC HEALTH	MA DPH Healthy Relationships FY20-FY22	\$28,898
6/16/2022	Emrick, Todd S	U.S. DEPARTMENT OF ENERGY	Experimental Realization of 'Repair-and-Go' Using Microencapsulation of Nanomaterials	\$186,000
	Hynes, Bridget A	U.S. DEPARTMENT OF EDUCATION	UMass Regular Upward Bound	\$297,563
	Ping, Jinglei	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Multiscale Electrical Mapping of Biosystems	\$149,992
	Zilberstein, Shlomo	NATIONAL SCIENCE FOUNDATION	Collaborative Research: RI: Medium: Introspective Perception and Planning for Long-Term Autonomy	\$205,987

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6/17/2022	Elkinton, Joseph S	ANIMAL AND PLANT HEALTH INSPECTION SERV	Development of Monitoring and Control Methods for Exotic Invasive Forest Pests	\$432,531
	Milman, Anita D	NATIONAL SCIENCE FOUNDATION	EAGER: SAI: Water Supplier Decisions & Institutional Change During Transitions	\$9,757
	Pater, Joseph V	NATIONAL SCIENCE FOUNDATION	Representing and learning stress: Grammatical constraints and neural networks	\$386,226
	Tease, Katherine E	NATIONAL AERO AND SPACE ADMINISTRATION	3D-Herschel: Completing the CANDELS/3D-HST Legacy with a New Framework for Deriving Galaxy Properties	\$126,514
	Tobiason, John E	MA DEPT OF ENVIRONMENTAL PROTECTION	Assistance Program for Lead in School and Early Education and Care Facility (EECF) Drinking Water	\$327,000
	Zamani, Hamed	NATIONAL SCIENCE FOUNDATION	CAREER: Enriching Conversational Information Retrieval via Mixed-Initiative Interactions	\$105,481
	Zilberstein, Shlomo	NATIONAL SCIENCE FOUNDATION	RI: Small: Foundations and Applications of Observer-Aware Planning	\$599,989
6/22/2022	Breger, Dwayne S	PIONEER VALLEY PLANNING COMMISSION	GHG Emissions Inventory and Net Zero Scoping Technical Assistance	\$38,371
	Knodler Jr, Michael A	MA DEPARTMENT OF TRANSPORTATION	MASSACHUSETTS STRATEGIC HIGHWAY SAFETY PLAN (SHSP) FOLLOW-UP	\$129,994
	Ma, Li-Jun	NIH-NATIONAL INSTITUTES OF HEALTH	Identify virulence factors that facilitate Fusarium keratitis	\$377,349
	Riessman, Robin E	MA DEPARTMENT OF TRANSPORTATION	Methods to Identify Problematic Carriers and Prevent Infrastructure Damage	\$126,220
6/23/2022	Briere, Carrie E	NIH-NATIONAL INSTITUTES OF HEALTH	Cellular Components of Human Milk: An Examination of Their Role in Infant Health and Development and the Functional Impact of Hospital Storage Practices	\$146,240
	Hardy, Jeanne A	NIH-NATIONAL INSTITUTES OF HEALTH	Biotechnology Training Program in Applied Life Sciences	\$520,362

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6/23/2022	Pak, ChangHui	NIH-NATIONAL INSTITUTES OF HEALTH	Molecular dissection of synaptic dysfunction in mental disorders	\$45,241
	Balasubramanian, Hari J	NATIONAL SCIENCE FOUNDATION	Modeling the Impact of Care Interventions on Patients with Complex Medical and Social Needs	\$502,159
6/24/2022	Gierasch, Lila M	NIH-NATIONAL INSTITUTES OF HEALTH	Protein folding in the cell: Challenges and coping mechanisms	\$554,979
	Moorman, David	NIH-NATIONAL INSTITUTES OF HEALTH	Prefrontal ensemble dynamics during response execution and inhibition	\$19,938
	Vankim, Nicole A	NIH-NATIONAL INSTITUTES OF HEALTH	Physiologic stress and sexual orientation disparities in risk for type 2 diabetes among women	\$152,468
	Vardatira, Sharon M	MA DEPT OF AGRICULTURAL RESOURCES	MDAR Farmland Plan FY22	\$12,727
	Calabrese, Edward J	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Enhancing Biological Performance and Protection: Occurrence, Mechanisms and Applications	\$189,643
6/27/2022	Donoghue, John F	NATIONAL SCIENCE FOUNDATION	Particle Physics, Gravity and Cosmology	\$205,000
	Gao, Haiying	NATIONAL SCIENCE FOUNDATION	CAREER: Along-Strike Variation: A Comparative Study of Subduction Zones at Multiple Scales Using Joint Receiver Function and Tomographic Inversion	\$87,193
	Srimathveeravalli, Govindarajan	NIH-NATIONAL INSTITUTES OF HEALTH	Intrasurgical tissue engineering of autologous grafts using irreversible electroporation for bladder reconstruction	\$342,094
	Stratton, Margaret M	NIH-NATIONAL INSTITUTES OF HEALTH	CaMKII biophysics and its role in LTP	\$31,295
	6/28/2022	Chien, Peter	NIH-NATIONAL INSTITUTES OF HEALTH	Regulated Proteolysis in Bacteria Development and Stress Response
Melnik, Mark A		CAPE COD COMMISSION	CCC Regional Housing Plan FY23	\$125,000

Awards from Federal, Massachusetts, or Municipal Entities for Calendar Year 2022 - Quarter Q2

Awarded Date	PI	Sponsor Name	Title	Obligated Total \$
6/28/2022	Peyton, Shelly	NIH-NATIONAL INSTITUTES OF HEALTH	UMass Amherst PREP Program	\$33,387
	Thayumanavan, Sankaran	NIH-NATIONAL INSTITUTES OF HEALTH	Protein-Induced Self-Assembly and Disassembly of Nanostructures Based on Oligomers and Polymers	\$51,305
	Vicarelli, Marta	NATIONAL SCIENCE FOUNDATION	Towards a green and inclusive post-pandemic recovery of the Blue Economy and coastal communities (RRR-Coast)	\$200,000
	Zhu, Wei	NATIONAL SCIENCE FOUNDATION	EAGER: CDS&E: Applied Geometry and Harmonic Analysis in Deep Learning Regularization: Theory and Application	\$51,686
6/29/2022	Kaltashov, Igor A	NIH-NATIONAL INSTITUTES OF HEALTH	An integrated mass spectrometry approach to study heparin structure-bioactivity	\$42,251
	Thompson, Lynmarie	NIH-NATIONAL INSTITUTES OF HEALTH	Assembly and Function of Bacterial Chemotaxis Receptor Signaling Complexes	\$352,459
6/30/2022	Balasubramanian, Raji	NIH-NATIONAL INSTITUTES OF HEALTH	Network Models for Metabolomics	\$334,613
	Guzman, Christian D	MA DEPT OF CONSERVATION AND RECREATION	Water Quality in DCR Reservoirs 2022-2024	\$320,000
	Jackson, Scott D	U.S. GEOLOGICAL SURVEY	Ecosystem-based Regional Connectivity to Inform Climate Refugia Networks	\$138,992
	Kaltashov, Igor A	NIH-NATIONAL INSTITUTES OF HEALTH	Cross-path reactive chromatography/mass spectrometry as a versatile platform for characterization of primary and higher order structure of complex heterogeneous proteins	\$30,939
	Kumar, Krishna S	U.S. DEPARTMENT OF ENERGY	Precision QCD and Electroweak Studies with Polarized Electrons	\$439,000
	Lopes, Mariana L	OFFICE OF NAVAL RESEARCH	UV self- Emitting Glass can Prevent Biofilm Formation on Naval Vessels Windows	\$100,000
	Martin, Craig T	NIH-NATIONAL INSTITUTES OF HEALTH	Systems for Dramatically Improved Synthetic RNA	\$30,653

Awards from Federal, Massachusetts, or Municipal Entities for Calendar Year 2022 - Quarter Q2

Awarded Date	PI	Sponsor Name	Title	Obligated Total \$
6/30/2022	Rich, Stephen M	CENTERS FOR DISEASE CONTROL & PREVENTION	New England Center of Excellence in Vector-Borne Diseases	\$1,978,739
	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Engineered Polymer Nanoemulsions for Treatment of Wound Biofilm Infections	\$393,246
Grand Total				\$48,160,241

Data as of: 7/5/2022 9:27:15 AM