



**CENTER FOR CLINICAL AND
TRANSLATIONAL SCIENCE**

UMass Life Sciences Moment Fund Awardees

2018 LSMF		
UMMS Dept./Campus	UMASS Dept./Campus	Project Title
<p>John Harris, MD, PhD Associate Professor, Department of Dermatology</p>	<p>Duncan Irschick, PhD Department of Biology UMass Amherst</p> <p>Weisong Liu, PhD Research Assistant Professor of Computer Science UMass Lowell</p>	<p>Integrated 3-dimensional (3D) Imaging to Track Disease Progression and Reversal in Patients with Vitiligo</p>
<p>Natalia Palacios, SCD Assistant Professor Zuckerberg College of Health Sciences Department of Public Health, UMass Lowell</p>	<p>Kara M. Smith, MD Assistant Professor Department of Neurology, School of Medicine UMass Worcester</p> <p>Anindita Deb, MD Assistant Professor Department of Neurology, School of Medicine UMass Worcester</p>	<p>Microbiome in Parkinson's Disease</p>
<p>Ekaterina Pivovarova, PhD Assistant Professor of Psychiatry UMass Worcester</p>	<p>Peter Friedmann, MD, MPH Associate Dean for Research at UMMS Baystate and Chief Research Officer, Baystate Health</p>	<p>Impact of Extended Release Naltrexone on Quality of Life in Criminal Justice Offenders with Opioid Use Disorders</p>
<p>Bo Zhang, PhD Assistant Professor, Department of Quantitative Health Sciences (QHS) UMMS</p>	<p>Nina Zhang, PhD Assistant Professor of Health Policy and Management, Department of Health Promotion and Policy, School of Public Health and Health Sciences (SPHHS), UMass Amherst</p> <p>Arlene Ash, PhD Professor and Division Chief, Department of Quantitative Health Sciences, UMMS</p>	<p>Establishing the "UMass Worcester-Amherst for Health Policy Research Laboratory" and Proof of Concept</p>
2017 LSMF		
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<p>Nancy Byatt, DO, MS, MBA Associate Professor, Departments of Psychiatry and Obstetrics and Gynecology</p>	<p>Maureen Perry-Jenkins, PhD Professor, Department of Psychological and Brain Sciences; Director, Center for Research on Families, UMass Amherst</p>	<p>Adapting and Testing the Feasibility of a Prenatal Intervention for Low-Income Parents</p>

<p>Celia A. Schiffer, PhD Professor, Biochemistry and Molecular Pharmacology; Founder and Director, Institute for Drug Resistance; Co-Director, MassTERi</p>	<p>Sivappa Rasapalli, PhD Assistant Professor, Department of Chemistry and Biochemistry, UMass Dartmouth</p>	<p>Developing Novel Approach to CARB: Optimization of a UMD <u>D</u>ual <u>E</u>fflux pump-<u>B</u>iofilm <u>I</u>nhibitor (DEBI) Team</p>
<p>Beth A. McCormick, PhD Professor and Vice Chair, Department of Microbiology and Physiological Systems; Founding Executive Director, UMass Center for Microbiome Research</p>	<p>David A. Sela, PhD Assistant Professor, Department of Food Science; Adjunct Assistant Professor, Department of Microbiology, UMass Amherst</p>	<p>Breast Milk Oligosaccharides Provide a Nitrogen Source for the Developing Gut Microbiome to Impact Neonatal Health</p>
<p>Doyle Ward, PhD Associate Professor Microbiology and Physiological Systems (MaPS)</p>		
<p>J. Kevin Donahue, MD Professor, Department of Medicine; Director, Electrophysiology Research</p>	<p>Xingwei Wang, PhD Professor, Department of Electrical & Computer Engineering, UMass Lowell</p>	<p>A Catheter Based Temperature Monitoring System for Atrial Fibrillation Ablation Procedures</p>
2014 LSMF		
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<p>Neil Aronin, MD Professor, Department of Medicine; Co-Director, Neurotherapeutics Institute</p> <p>Michael H. Brodsky, PhD Assistant Professor, Program in Gene Function and Expression; Director, UMMS Mutagenesis Core Facility</p>	<p>Gregory N. Tew, PhD Professor, Polymer Science and Engineering, UMass Amherst</p>	<p>CRISPR-Cas9-derived Nucleases and PTDMs for Huntington's Disease Treatment</p>
<p>John E. Harris, MD, PhD Assistant Professor, Division of Dermatology, Department of Medicine</p>	<p>Alfred J. Crosby, PhD Professor, Polymer Science and Engineering, UMass Amherst</p> <p>Duncan J. Irschick, PhD Professor, Department of Biology, UMass Amherst</p>	<p>Geckskin™ for Biomedical Skin Applications: Demonstrating Clinical Relevance and Potential</p>
<p>Hemant Khanna, PhD Assistant Professor, Department of Ophthalmology</p>	<p>Murugappan Muthukumar, PhD Wilmer D. Barrett Professor, Polymer Science & Engineering, UMass Amherst</p>	<p>Therapeutic Modalities for Leber Congenital Amaurosis (LCA) due to CEP290 Gene Defects</p>
<p>Anastasia Khvorova, PhD Professor, Program in Molecular Medicine and RNA Therapeutics Institute</p>	<p>Barbara A. Osborne, PhD Professor, Veterinary & Animal Sciences; Director, Molecular & Cellular Biology Program, UMass Amherst</p> <p>Lisa M. Minter, PhD Assistant Professor, Veterinary & Animal Sciences, UMass Amherst</p>	<p><i>Ex Vivo</i> RNAi-based Therapy for Modulating T Cell Response as a Novel Treatment for Graft-vs-Host Disease</p>

2013 LSMF		
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Douglas Golenbock, MD Professor, Division of Infectious Diseases & Immunology, Department of Medicine	Garth F. Hall, PhD Associate Professor, Biological Science/UMass Lowell	The Role of Tau in Infammasome Activation in Alzheimer's Disease
Phil Gona, PhD Associate Professor, Biostatistics and Health Services Research, Department of Quantitative Health Sciences	Andrea Foulkes, PhD Associate Professor and Director, Institute for Computational Biology, Biostatistics, and Bioinformatics (ICB3)/UMass Amherst	Genetic and Genomic Determinants of Hypertension in Black and Caucasian South Africans – A Pilot-study Nested in the African-PREDICT Study
Y. Tony Ip, PhD Professor, Program in Molecular Medicine	Michele Markstein, PhD Assistant Professor, Biology/UMass Amherst	Establishment of Rab 11-regulated Inflammation as Therapeutic Targets in Cancer Progression
Paul D. Kaufman, PhD Professor, Program in Molecular Medicine	Daniel F. Schmidt, PhD Associate Professor, Plastics Engineering/UMass Lowell	Active Plastics as a Novel Strategy to Combat Fungal Infections
2012 LSMF		
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Anne Marie Comeau, PhD Assistant Professor, Department of Pediatrics	<i>Special award using President's S&T funds</i>	A Retrospective Study with Prospective Potential: Evaluating Specimens of Children Diagnosed with Conditions that may be Identifiable in the Newborn Period by Molecular Testing for Measures of T and B Cell Development
Wenjun Li, PhD Associate Professor, Biostatistics Research Group	Scott Crouter, PhD, FACSM Assistant Professor; Director of the Exercise Science Laboratory/UMass Boston	Residential Environment and Coronary Heart Disease Risk Factors (REACH) Pilot Study
William Theurkauf, PhD Professor, Program in Molecular Medicine; Director, Interdisciplinary Graduate Program; Director, Program in Cell and Developmental Dynamics Zhiping Weng, PhD Professor, Biochemistry and Molecular Pharmacology; Director, Program in Bioinformatics and Integrative Biology	Lawrence M. Schwartz, PhD Professor of Integrated Science, Department of Biology/UMass Amherst Priscilla M. Clarkson, PhD Distinguished Professor, Department of Kinesiology; Dean of Commonwealth Honors College/UMass Amherst	microRNA Control of Muscle Atrophy and Death
Tiffany A. Moore Simas, MD, MPH, MEd Associate Professor, Obstetrics & Gynecology and Pediatrics	Laura Hayman, PhD, RN, FAAN Associate Dean for Research; Professor of Nursing at CNHS/UMass Boston Ling Shi, PhD Assistant Professor, College of Nursing and Health Sciences (CNHS)/UMass Boston	Effects of Soy Protein and Isoflavone Supplementation for Improved Glucose Metabolism and Lipid Profiles in Pregnant Women at High Risk for Gestational Diabetes Mellitus
Karl Simin, PhD Assistant Professor, Cancer Biology	D. Joseph Jerry, PhD Professor, Veterinary & Animal Sciences; Scientific Director, Pioneer Valley Life Sciences Institute; Co-Director, Center for Breast Cancer Research/UMass Amherst	Linear Amplification of RNA Derived from Formalin-fixed, Paraffin-embedded (FFPE) Histopathological Specimens to Generate Robust Genome-wide Gene Expression Profiles
2010 LSMF		

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Patricia Franklin, MD, MPH, MBA Professor, Orthopedics & Physical Rehabilitation	Patty Freedson, PhD Professor, Exercise Science/UMass Amherst	Technology to Assess Physical Activity and Behavior in Aging Adults with Osteoarthritis
Alonzo Ross, PhD Professor, Biochemistry & Molecular Pharmacology	Lisa Minter, PhD Assistant Professor, Veterinary & Animal Sciences/UMass Amherst	Targeting MicroRNAs to Enhance a Novel Therapy for Glioblastomas
Phillip Zamore, PhD Professor, Biochemistry & Molecular Pharmacology		
Gary Ostroff, PhD Professor, Program in Molecular Medicine	Gregory N. Tew, PhD Associate Professor, Polymer Science & Engineering/UMass Amherst	Targeted Delivery of Novel Antimicrobial Peptide Mimics to TB
Hardy Kornfeld, MD Professor, Department of Medicine		
Celia Schiffer, PhD Professor, Biochemistry & Molecular Pharmacology	Margaret Riley, PhD Professor, Biology/UMass Amherst	Testing Novel Antimicrobials to Treat Chronic Pseudomonas Aeruginosa Infections in CF Lung
Andrew Karellas, PhD Professor, Department of Radiology	David Medich, PhD Director, Radiation Safety	Feasibility of Contrast Enhanced Neutron Imaging for the Early and Accurate Detection of Disease
	Peter Gaines, PhD Assistant Professor, Molecular & Developmental Biology/UMass Lowell	
2009 LSMF		
UMMS Dept./Campus	UMass Dept./Campus	Project Title
Eric Dickson, MD Professor, Department of Emergency Medicine	Hari Balusubramanina, PhD Assistant Professor, Industrial Engineering/UMass Amherst	Improvement of Emergency Department Flow Using Event Stimulation and Radio Frequency Identification Technology
Olga Hardy, MD Assistant Professor, Department of Pediatrics	Jean Wiecha, PhD Associate Professor, Exercise & Health Sciences/UMass Boston	Capacity Building at GoKids Boston, An Intercampus Initiative
	Laura Hayman, PhD Professor, Associate Dean of Research College of Nursing & Health Sciences/UMass Boston	
Jie Song, PhD Assistant Professor, Orthopedics & Cell Biology	Nima Rahbar, PhD Assistant Professor, Civil & Environmental Engineering/UMass Dartmouth	Interfacial Adhesion between Polymer Substrates and Osteoconductive Minerals-Addressing a Key Challenge in Bone Tissue Engineering
Stephen J. Doxsey, PhD Professor, Program in Molecular Medicine	Patricia Wadsworth, PhD Professor, Biology/UMass Amherst	Mouse Model of Human Dwarfisms to Dissect the Cellular Mechanism of Short Stature
Jean Frazier, MD Professor & Vice Chair, Child & Adolescent Psychiatry	William Kiernan, PhD Research Professor, Institute for Community Inclusion/UMass Boston	The Move from School to Employment & Adult Life: A Personal & Workforce Development Challenge
Maryann Davis, PhD Research Associate Professor, Department of Psychiatry		
Michael Green, MD, PhD	Sankaran Thayumanavan, PhD Professor, Chemistry/UMass Amherst	Development of Methods for Targeted siRNA Delivery for Cancer Treatment

Professor, Gene Function & Expression & Biochemistry & Molecular Pharmacology		
Lori Pbert, PhD Associate Professor, Preventive & Behavioral Medicine, Department of Medicine	Garry Handelman, PhD Professor, Nutrition & Health Economics/UMass Lowell	University/Community Collaboration for Prevention of Type 2 Diabetes in Working Class & Lower Income Youth
Michelle Kelliher, PhD Associate Professor, Cancer Biology, Molecular Genetics & Microbiology	Barbara Osborne, PhD Professor, Animal Sciences, Veterinary & Animal Sciences/UMass Amherst	Targeted Therapies for T Cell Acute Lymphoblastic Leukemia