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**UMass Life Sciences Moment Fund Awardees**

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| 2018 LSMF |  |  |
| UMMS Dept./Campus | **UMASS Dept./Campus** | **Project Title** |
| John Harris, MD, PhDAssociate Professor, Department of Dermatology | **Duncan Irschick, PhD**Department of BiologyUMass Amherst**Weisong Liu, PhD**Research Assistant Professor of Computer ScienceUMass Lowell | Integrated 3-dimensional (3D) Imaging to Track Disease Progression and Reversal in Patients with Vitiligo |
| Natalia Palacios, SCDAssistant ProfessorZuckerberg College of Health SciencesDepartment of Public Health, UMass Lowell | **Kara M. Smith, MD**Assistant ProfessorDepartment of Neurology, School of MedicineUMass Worcester**Anindita Deb, MD**Assistant ProfessorDepartment of Neurology,School of MedicineUMass Worcester | Microbiome in Parkinson’s Disease |
| Ekaterina Pivovarova, PhDAssistant Professor of PsychiatryUMass Worcester | **Peter Friedmann, MD, MPH**Associate Dean for Research at UMMS Baystate and Chief Research Officer, Baystate Health | Impact of Extended Release Naltrrexoneo9n Quality of Life in Criminal Justice Offenders with Opioid Use Disorders |
| Bo Zhang, PhDAssistant Professor, Department of Quantitative Health Sciences (QHS) UMMS | **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 AmherstArlene Ash, PhDProfessor and Division Chief, Department of Quantitative Health Sciences, UMMS | Establishing the “UMass Worcester-Amherst for Health Policy Research Laboratory” and Proof of Concept |
| 2017 LSMF |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Nancy Byatt, DO, MS, MBAAssociate Professor, Departments of Psychiatry and Obstetrics and Gynecology | **Maureen Perry-Jenkins, PhD**Professor, Department of Psychological and Brain Sciences; Director, Center for Research on Families, UMass Amherst | Adapting and Testing the Feasibility of a Prenatal Intervention for Low-Income Parents |
| Celia A. Schiffer, PhDProfessor, Biochemistry and Molecular Pharmacology; Founder and Director, Institute for Drug Resistance; Co-Director, MassTERi | **Sivappa Rasapalli, PhD**Assistant Professor, Department of Chemistry and Biochemistry, UMass Dartmouth | Developing Novel Approach to CARB: Optimization of a UMD Dual Efflux pump-Biofilm Inhibitor (DEBI) Team |
| Beth A. McCormick, PhDProfessor and Vice Chair, Department of Microbiology and Physiological Systems; Founding Executive Director, UMass Center for Microbiome ResearchDoyle Ward, PhDAssociate ProfessorMicrobiology and Physiological Systems (MaPS) | **David A. Sela, PhD**Assistant Professor, Department of Food Science; Adjunct Assistant Professor, Department of Microbiology, UMass Amherst | Breast Milk Oligosaccharides Provide a Nitrogen Source for the Developing Gut Microbiome to Impact Neonatal Health |
| J. Kevin Donahue, MDProfessor, Department of Medicine; Director, Electrophysiology Research | **Xingwei Wang, PhD**Professor, Department of Electrical & Computer Engineering, UMass Lowell | A Catheter Based Temperature Monitoring System for Atrial Fibrillation Ablation Procedures |
| 2014 LSMF |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Neil Aronin, MDProfessor, Department of Medicine; Co-Director, Neuro-therapeutics InstituteMichael H. Brodsky, PhDAssistant Professor, Program in Gene Function and Expression; Director, UMMS Mutagenesis Core Facility | **Gregory N. Tew, PhD**Professor, Polymer Science and Engineering, UMass Amherst | CRISPR-Cas9-derived Nucleases and PTDMs for Huntington’s Disease Treatment |
| John E. Harris, MD, PhDAssistant Professor, Division of Dermatology, Department of Medicine | **Alfred J. Crosby, PhD**Professor, Polymer Science and Engineering, UMass Amherst**Duncan J. Irschick, PhD**Professor, Department of Biology, UMass Amherst | Geckskin™ for Biomedical Skin Applications: Demonstrating Clinical Relevance and Potential |
| Hemant Khanna, PhDAssistant Professor, Department of Ophthalmology | **Murugappan Muthukumar, PhD**Wilmer D. Barrett Professor, Polymer Science & Engineering, UMass Amherst | Therapeutic Modalities for Leber Congenital Amaurosis (LCA) due to CEP290 Gene Defects |
| Anastasia Khvorova, PhDProfessor, Program in Molecular Medicine and RNA Therapeutics Institute | **Barbara A. Osborne, PhD**Professor, Veterinary & Animal Sciences; Director, Molecular & Cellular Biology Program, UMass Amherst**Lisa M. Minter, PhD**Assistant Professor, Veterinary & Animal Sciences, UMass Amherst | *Ex Vivo* RNAi-based Therapy for Modulating T Cell Response as a Novel Treatment for Graft-vs-Host Disease |
| 2013 LSMF |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Douglas Golenbock, MDProfessor, 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, PhDAssociate 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, PhDProfessor, 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, PhDProfessor, 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 |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Anne Marie Comeau, PhDAssistant Professor, Department of Pediatrics | *Special award using President’s S&T funds* | 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, PhDAssociate 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, PhDProfessor, Program in Molecular Medicine; Director, Interdisciplinary Graduate Program; Director, Program in Cell and Developmental DynamicsZhiping Weng, PhDProfessor, 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, MEdAssociate 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, PhDAssistant 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 |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Patricia Franklin, MD, MPH, MBAProfessor, 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, PhDProfessor, Biochemistry & Molecular PharmacologyPhillip Zamore, PhDProfessor, Biochemistry & Molecular Pharmacology | **Lisa Minter, PhD**Assistant Professor**,** Veterinary & Animal Sciences/UMass Amherst | Targeting MicroRNSs to Enhance a Novel Therapy for Glioblastomas |
| Gary Ostroff, PhDProfessor, Program in Molecular MedicineHardy Kornfeld, MDProfessor, Department of Medicine | **Gregory N. Tew, PhD**Associate Professor, Polymer Science & Engineering/UMass Amherst | Targeted Delivery of Novel Antimicrobial Peptide Mimics to TB |
| Celia Schiffer, PhDProfessor, 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**Peter Gaines, PhD**Assistant Professor**,** Molecular & Developmental Biology/UMass Lowell | Feasibility of Contrast Enhanced Neutron Imaging for the Early and Accurate Detection of Disease |
| 2009 LSMF |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Eric Dickson, MDProfessor, 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, MDAssistant Professor, Department of Pediatrics | **Jean Wiecha, PhD**Associate Professor, Exercise & Health Sciences/UMass Boston**Laura Hayman, PhD**Professor, Associate Dean of ResearchCollege of Nursing & Health Sciences/UMass Boston | Capacity Building at GoKids Boston, An Intercampus Initiative |
| Jie Song, PhDAssistant 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, PhDProfessor, 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, MDProfessor & Vice Chair, Child & Adolescent PsychiatryMaryann Davis, PhDResearch Associate Professor, Department of 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 |
| Michael Green, MD, PhDProfessor, Gene Function & Expression & Biochemistry & Molecular Pharmacology | **Sankaran Thayumanavan, PhD**Professor, Chemistry/UMass Amherst | Development of Methods for Targeted siRNA Delivery for Cancer Treatment |
| Lori Pbert, PhDAssociate 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 |