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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, PhD  Associate Professor, Department of Dermatology | **Duncan Irschick, PhD**  Department of Biology  UMass Amherst  **Weisong Liu, PhD**  Research Assistant Professor of Computer Science  UMass Lowell | Integrated 3-dimensional (3D) Imaging to Track Disease Progression and Reversal in Patients with Vitiligo |
| Natalia Palacios, SCD  Assistant Professor  Zuckerberg College of Health Sciences  Department of Public Health,  UMass Lowell | **Kara M. Smith, MD**  Assistant Professor  Department of Neurology,  School of Medicine  UMass Worcester  **Anindita Deb, MD**  Assistant Professor  Department of Neurology,  School of Medicine  UMass Worcester | Microbiome in Parkinson’s Disease |
| Ekaterina Pivovarova, PhD  Assistant Professor of Psychiatry  UMass 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, PhD  Assistant 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 Amherst  Arlene Ash, PhD  Professor 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, MBA  Associate 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, PhD  Professor, 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, PhD  Professor and Vice Chair, Department of Microbiology and Physiological Systems; Founding Executive Director, UMass Center for Microbiome Research  Doyle Ward, PhD  Associate Professor  Microbiology 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, MD  Professor, 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, MD  Professor, Department of Medicine; Co-Director, Neuro-therapeutics Institute  Michael H. Brodsky, PhD  Assistant 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, PhD  Assistant 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, PhD  Assistant 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, PhD  Professor, 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, 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 |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| Anne Marie Comeau, PhD  Assistant 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, 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 |  |  |
| UMMS Dept./Campus | **UMass Dept./Campus** | **Project Title** |
| 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  Phillip Zamore, PhD  Professor, Biochemistry & Molecular Pharmacology | **Lisa Minter, PhD**  Assistant Professor**,** Veterinary & Animal Sciences/UMass Amherst | Targeting MicroRNSs to Enhance a Novel Therapy for Glioblastomas |
| Gary Ostroff, PhD  Professor, Program in Molecular Medicine  Hardy Kornfeld, MD  Professor, 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, 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  **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, 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  **Laura Hayman, PhD**  Professor, Associate Dean of Research  College of Nursing & Health Sciences/UMass Boston | Capacity Building at GoKids Boston, An Intercampus Initiative |
| 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  Maryann Davis, PhD  Research 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, PhD  Professor, 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, 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 |