



**CENTER FOR CLINICAL AND
TRANSLATIONAL SCIENCE**

UMCCTS Pilot Project Program Awardees

2023-2024 Fall /Winter PPP		
Investigators	Title/Affiliation	Project Title
John E. Landers, PhD Desiree Powell, PhD	Professor, Department of Neurology, UMass Chan-Worcester Research Associate IV	A Generalizable Approach of Mutant-Specific Knockdown Towards the Development of Therapeutics for Dominant Diseases
Heidi K. Leftwich, DO Ana Maldonado-Contreras, PhD Vanni Bucci, PhD Courtney Birchall, MD, PGY-6, Fellow,	Associate Professor, Department of Obstetrics and Gynecology, UMass Memorial Health/ UMass Chan-Worcester Assistant Professor, Department of Microbiology and Physiological Systems, UMass Chan-Worcester Associate Professor, Department of Microbiology and Physiological Systems, UMass Chan-Worcester GY-6, Fellow, Department of Obstetrics and Gynecology, UMass Chan-Worcester	Maternal Investigation for a Comprehensive Review Of microBiome in preEclampsia (MICROBIOME Study)
Jae-Hyuck Shim, PhD, Julia Alterman, PhD,	Associate Professor, Department of Medicine, UMass Chan-Worcester Assistant Professor, Department of Medicine, RNA Therapeutics Institute, UMass Chan-Worcester	Development of a Novel RNA Interference as a Therapeutic Agent for Rheumatoid Arthritis
Sarah K. Whitley, MD, PhD;	Assistant Professor, Department of Dermatology, UMass Chan-Worcester; Investigator, Autoimmune Therapeutics Institute; Co-Director, Hidradenitis Suppurativa Center	Matrikine Regulation of Skin Inflammation
2023 Spring/Summer PPP		
Investigators	Title/Affiliation	Project Title
Beth McCormick, PhD Ernesto Soto, PhD	Professor and Vice Chair, Department of Microbiology and Physiological Systems, UMass Chan-Worcester Senior Scientist, Program in Molecular Medicine, UMass Chan-Worcester	Targeted Delivery of Microbial Metabolites to Treat Inflammatory Bowel Diseases

Jamie Faro, PhD	Assistant Professor, Department of Population and Quantitative Health Sciences, UMass Chan-Worcester	Integrating Cancer Survivorship Care into Primary Care
Katheen Barry, MD	Assistant Professor, Department of Family Medicine and Community Health, UMass Chan-Worcester	
Tzafra Tessier, PA-C	Physician Assistant, UMass Memorial Cancer Center	
Timothy Sannes, PhD	Assistant Professor, Department of Psychiatry, UMass Chan-Worcester	
Joyita Dutta, PhD	Associate Professor, Department of Biomedical Engineering, UMass Amherst	Super-Resolved Thalamic Imaging Biomarkers for Neurodegeneration
Manojkumar Saranathan, PhD	Professor, Department of Radiology, UMass Chan-Worcester	
Behroze Adi Vachha, MD, PhD	Associate Professor, Department of Radiology, UMass Chan-Worcester	
2022-2023 Fall/Winter PPP		
Investigators	Title/Affiliation	Project Title
Evan Bradley, MD, PhD	Assistant Professor, Department of Emergency Medicine, UMass Chan-Worcester	Defining the Metagenome of the Urinary Microbiome Among Older Adults Residing in Nursing Homes
John P. Haran, MD, PhD	Associate Professor, Department of Emergency Medicine, UMass Chan-Worcester	
Vanni Bucci, PhD	Associate Professor, Department of Microbiology and Physiologic Systems, UMass Chan-Worcester	
Lisa A. Lewis, PhD	Associate Professor, Department of Medicine, Division of Infectious Diseases, and Immunology, UMass Chan-Worcester	mRNA Encoded Monoclonal Antibody for Therapeutic Use against Gonorrhea
Li Li, PhD	Assistant Professor, RNA Therapeutics Institute, UMass Chan-Worcester	
Sanjay Ram, MBBS	Professor, Department of Medicine, Division of Infectious Diseases, and Immunology, UMass Chan-Worcester	
Ekaterina Pivovarova, PhD	Assistant Professor, Department of Family Medicine and Community Health, UMass Chan-Worcester	Comparative Effectiveness of In-Jail Therapeutic Community Treatment to Extended-Release Naltrexone on Longitudinal Health and Legal Outcomes
Bruce Barton, PhD	Professor, Department of Population and Quantitative Health Sciences, UMass Chan-Worcester	
Peter Friedmann, MD, MPH	Associate Dean for Research, UMass Chan-Baystate	

Adrian H Zai, MD, PhD, MPH	Associate Professor, Department of Medicine, Division of Population and Quantitative Health Sciences, UMass Chan-Worcester	Reducing Infections in Post-Surgical Events (RISE)
Kimiyoshi Kobayashi, MD, MBA	Associate Professor, Department of Medicine, Division of Population and Quantitative Health Sciences, UMass Chan-Worcester	
Richard T. Ellison, III, MD	Professor, Department of Medicine, Division of Infectious Diseases and Immunology, UMass Chan-Worcester	
Robert C. Steppacher, Jr., MD	Assistant Professor, Department of Medicine, Division of Anesthesiology and Perioperative Medicine, UMass Chan-Worcester	
Penelope (Penny) Iannelli, LSSMBB, PMP	Chief Transformation Officer, UMass Memorial Health	
Feifan Liu, PhD	Assistant Professor, Department of Medicine, Division of Population and Quantitative Health Sciences, UMass Chan-Worcester	
Ugur Celik	PhD student /Data Scientist, UMass Chan	
Yurima Guilarte Walker, MS (RIC)	Director of Research Informatics Operations	
Steven Wong, MS	Director of Research Informatics Systems Senior	
Sean Blood	Director, BI/Analytics & Data Warehouse Integration	
2022 Spring/Summer PPP		
Investigators	Title/Affiliation	Project Title
Prabhani Atukorale, PhD	Assistant Professor, Department of Biomedical Engineering, UMass Amherst	Developing a Targeted mRNA-Encapsulated Lipid Nanoparticle for Restoring Ciliogenesis & Treatment of Polycystic Kidney Disease
Sumeda Nandadasa, PhD	Assistant Professor, Department of Pediatrics, UMass Chan-Worcester	
Alok Kapoor, MD	Associate Professor, Department of Medicine, UMass Chan-Worcester	Storytelling to Reduce Gap in Anticoagulation Use in African Americans with Atrial Fibrillation
Jeroan Allison, MD, MS	Chair and Professor, Department of Population & Quantitative Health Sciences, UMass Chan-Worcester	
Milagros Rosal, PhD	Professor and Vice Provost, Department of Population and Quantitative Health Sciences, UMass Chan-Worcester	
Geoffrey Barnes, MD	Associate Professor, University of Michigan	

Shyam Patel, MD, PhD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	Clinical Translation of an Innovative Leukemia Stem Cell Assay for Detection, Prognostication, and Precision Management of Blood Cancers
Jonathan Gerber, MD	Professor and Chief of Hematology/Oncology, Department of Medicine, UMass Chan-Worcester	
Bruce Woda, MD	Professor and Chief of Hematopathology, Department of Pathology, UMass Chan-Worcester	
Apurv Soni, MD, PhD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	Healthy at Home: Feasibility Trial of Home-Based Management of Patients with COPD Using Digital Technology
Laurel O'Connor, MD	Assistant Professor, Department of Emergency Medicine, UMass Chan-Worcester	
John P Broach, MD, MPH, MBA	Associate Professor, Department of Emergency Medicine, UMass Chan-Worcester	
Lawrence Stern, PhD	Professor, Department of Pathology, Department of Biochemistry and Molecular Biotechnology, Department of Emergency Medicine, UMass Chan-Worcester	Cross-Reactive T Cell Epitopes for Development of Pan-Coronavirus Subunit Vaccines
Mary Dawn Co, MD	Assistant Professor, Department of Medicine, Department of Emergency Medicine, UMass Chan-Worcester	
J. Mauricio Calvo-Calle, PhD	Instructor, Department of Pathology, Department of Emergency Medicine, UMass Chan-Worcester	
2021-2022 Fall/Winter PPP		
Investigators	Title/Affiliation	Project Title
Yu Chen, PhD	Associate Professor, Department of Biomedical Engineering, UMass Amherst; Adjunct Associate Professor, Department of Radiology, UMass Chan-Worcester	Automatic Wild-field Optical Imaging for Transplant Organ Viability Assessment
Babak Movahedi, MD, PhD	Assistant Professor, Department of Surgery, UMass Chan-Worcester	
Haichong Zhag, PhD	Assistant Professor, Department of Biomedical Engineering, Worcester Polytechnic Institute	
Katherine A Fitzgerald, PhD	Professor, Department of Medicine, UMass Chan-Worcester	STING Agonism for the Treatment of COVID- 19
Fiachra Emanuel Humphries, PhD	Instructor, Department of Medicine, UMass Chan-Worcester	
Joel Richter, PhD	Professor, Program in Molecular Medicine, UMass Chan-Worcester	Correction of Defective Splicing in Fragile X Syndrome with Therapeutic Potential

David M Harlan, MD	William and Doris Krupp Chair in Diabetes, Professor of Medicine, Division of Diabetes, Diabetes Center of Excellence, UMass Chan-Worcester	Isolated Single Islet Studies to Define the Factors Underlying the Heterogeneity of Islet and Peri-Islet Lymphocytic Infiltration in Human Type 1 Diabetes
Yihao Zheng, PhD	Assistant Professor, Mechanical Engineering, Worcester Polytechnic Institute	
Sally C Kent, PhD	Professor of Medicine, Division of Diabetes, Diabetes Center of Excellence, UMass Chan-Worcester	
Sambra Redick, PhD	Senior Research Scientist, Diabetes Center of Excellence, UMass Chan-Worcester	
Tianxiao Huan, PhD	Assistant Professor, Ophthalmology and Visual Sciences, UMass Chan-Worcester	Dissecting Optical Coherence Tomography Features to Predict Risk of Future Advanced Age-related Macular Degeneration
Johanna M. Seddon, MD, ScM	Professor, Department of Ophthalmology and Visual Sciences, UMass Chan-Worcester	
Yu Chen, PhD	Associate Professor, Department of Biomedical Engineering, UMass Amherst; Adjunct Associate Professor, Department of Radiology, UMass Chan-Worcester	
Anna Luisa Kuhn, MD, PhD	Assistant Professor, Department of Radiology, UMass Chan-Worcester	A Deep Learning-Based Real-Time Vascular Anatomy Assessment Tool for Emergency Stroke Interventions
Mohammed Salman Shazeeb, PhD	Assistant Professor, Department of Radiology, UMass Chan-Worcester	
Clifford Grant Lindsay, PhD	Assistant Professor, Department of Radiology, UMass Chan-Worcester	
Adam Lammert, PhD	Assistant Professor, Biomedical Engineering, Worcester Polytechnic Institute	Tinnitus Characterization Using Reverse Correlation with Applications to Retraining Therapies
Divya Chari, MD	Assistant Professor, Otolaryngology, Head & Neck Surgery, UMass Chan-Worcester	
2021 Spring/Summer PPP		
Investigators	Title/Affiliation	Project Title
Claudio Punzo, PhD	Associate Professor, Ophthalmology and Visual Sciences	Testing siRNA Therapeutics for the Treatment of Age-Related Macular Degeneration
Mostafa Elfawal, PhD	Instructor, Program in Molecular Medicine, UMass Chan-Worcester	Screening and Optimization of Luotonin Based Leads for Anti-Fungal and Anti-Helminths
Reeta Rao, PhD	Associate Dean of Graduate Studies, Worcester Polytechnic Institute	
Sivappa Rasapalli, PhD	Associate Professor, Chemistry Department, UMass Dartmouth	

Mehdi Rashighi Firoozabadi, MD	Assistant Professor, Department of Dermatology, UMass Chan-Worcester	Roles of Cutaneous T Peripheral Helper Cells in Photosensitivity of Dermatomyositis
Jillian Richmond, PhD	Assistant Professor, Department of Dermatology, UMass Chan-Worcester	
Megan Orzalli, PhD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	
Jillian Richmond, PhD	Assistant Professor, Department of Dermatology, UMass Chan-Worcester	Examining Factors Governing T Lymphocyte Migration to the Skin During Cutaneous Lupus Erythematosus
Mehdi Rashighi Firoozabadi, MD	Assistant Professor, Department of Dermatology, UMass Chan-Worcester	
Kimberly A Fisher, MD	Associate Professor, Department of Medicine, UMass Chan-Worcester	Understanding Barriers to COVID-19 Vaccine Equity
Kathleen M. Mazor, EdD	Professor of Medicine, Department of Medicine, UMass Chan-Worcester	
Sybil Crawford, PhD	Professor of Biostatistics, Graduate School of Nursing, UMass Chan-Worcester	
2018 PPP		
Investigators	Title/Affiliation	Project Title
Gang Han, PhD	Associate Professor, UMass Chan, Department of Biochemistry and Molecular Pharmacology	Nanoparticle-Instructed Cell Therapy
Yubin Zhou, PhD	Associate Professor, Texas A&M University, Institute of Biosciences and Technology	
Jomol Mathew, PhD	Chief Research Information Officer, UMass Chan-Worcester	Pilot testing a wearable device to improve care and outcomes among mother-neonate dyad exposed to opioids during pregnancy
Apurv Soni	MD/PhD Student, UMass Chan-Worcester	
Nisha Fahey, DO	Resident Physician, Department of Pediatrics, UMass Chan-Worcester	
Jeroan Allison, MD	Professor, Department of Population & Quantitative Health Sciences, UMass Chan-Worcester	
Lawrence Rhein, MD	Professor, Department of Pediatrics, UMass Chan-Worcester	
Tiffany Moore Simas, MD	Associate Professor, Departments of Obstetrics & Gynecology and Psychiatry, UMass Chan-Worcester	
Nancy Byatt, DO, MBA	Assistant Professor, Departments of Psychiatry, Obstetrics and Gynecology, UMass Chan-Worcester	
2017 PPP		

Investigators	Title/Affiliation	Project Title
Melissa Anderson, PhD Kelly Wolf Craig, PhD Kathleen Biebel, PhD	Assistant Professor, Department of Psychiatry, UMass Chan-Worcester Clinical Psychologist, UMass Chan-Worcester Associate Professor, Department of Psychiatry, UMass Chan-Worcester	Creating the capacity to screen deaf women for perinatal depression
Benjamin Chen, MD, PhD Michael Brehm, PhD	Assistant Professor, Department of Pathology, UMass Chan-Worcester Associate Professor, Department of Molecular Medicine, UMass Chan-Worcester	Investigating the influence of the tumor immune microenvironment of human malignancies on tumor immunotherapy by utilizing humanized mouse models and patient-derived xenografts.
Giles Whalen, MD Dale Greiner, PhD	Professor, Department of Surgery, UMass Chan- Worcester Professor, Department of Molecular Medicine, UMass Chan-Worcester	
Sarah Goff, MD Nancy Byatt, DO, MBA Tina Fioroni, MEd Annamarie Golden, MS Kathleen Szegda, PhD, MPH	Associate Professor, Internal Medicine and Pediatrics, UMass Chan-Baystate Associate Professor, Department of Psychiatry, UMass Chan-Worcester Behavioral Health Network, Inc. Perinatal Support Coalition of Hampden County Partners for a Healthier Community	Increasing postpartum depression screening and referral in primary care pediatric practices
John Haran, MD Vanni Bucci, PhD	Assistant Professor, Department of Emergency Medicine, UMass Chan-Worcester Assistant Professor, Biology, UMass Dartmouth	Intestinal microbiome modeling to predict <i>Clostridium difficile</i> colonization in elderly hospitalized patients
Katherine Luzuriaga, MD Gary Ostroff, PhD Eva Szomolanyi-Tsuda, MD	Professor, Department of Molecular Medicine, UMass Chan-Worcester Professor, Department of Molecular Medicine, UMass Chan-Worcester Associate Professor, Department of Pathology, UMass Chan-Worcester	An oral, bivalent Epstein-Barr virus vaccine with computationally determined viral glycoprotein epitopes

Rene Maehr, PhD	Assistant Professor, Department of Molecular Medicine, UMass Chan-Worcester	Combining pluripotent stem cells and organ engineering to develop thymic organoids for treatment and investigation of immune syndromes
Shelly Peyton, PhD	Associate Professor, Department of Chemical Engineering, UMass Amherst	
Jae-Hyuck Shim, PhD	Associate Professor, Department of Medicine, UMass Chan-Worcester	Development of a novel small molecule inhibitor as a therapeutic agent for spondyloarthritis
Ellen Gravallese, MD	Professor, Department of Medicine, UMass Chan-Worcester	
Zheni Starve, MD	Instructor, Department of Medicine, UMass Chan-Worcester	
2016 PPP Round 2		
Investigators	Title/Affiliation	Project Title
Daryl Bosco, PhD	Associate Professor, Department of Neurology, UMass Chan-Worcester	Novel 'Nanobodies' as a Diagnosis and Therapeutic for ALS
Silvia Corvera, MD	Professor, Department of Molecular Medicine, UMass Chan-Worcester	Leveraging the basic cell biology of human adipose tissue to improve outcomes in wound healing and reconstructive surgery
Janice Lalikos, MD	Professor, Department of Surgery, UMass Chan-Worcester	
Robert Finberg, MD	Professor, Department of Medicine, UMass Chan-Worcester	Breakthroughs in Treating and Preventing Influenza with Single Cell Sequencing
Manuel Garber, PhD	Associate Professor, Department of Molecular Medicine, UMass Chan-Worcester	
Alex Shalek, PhD	Assistant Professor, Department of Chemistry, MIT	
Ellen Gravallese, MD	Professor, Department of Medicine, UMass Chan-Worcester	Development of an innovative treatment strategy for osteoporosis
Jae-Hyuck Shim, PhD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	
Ching Tung, PhD	Professor, Radiology, Weill Cornell Medicine	
2016 PPP		
Investigators	Title/Affiliation	Project Title
Sharone Green, MD	Associate Professor, Department of Medicine, UMass Chan-Worcester	Innate Immunity Recognition of Chikungunya Virus
Kate Fitzgerald, PhD	Professor, Department of Medicine, UMass Chan-Worcester	
Lawrence Hayward, PhD	Professor, Department of Neurology, UMass Chan-Worcester	A Humanized in vivo Model of Facioscapulohumeral Muscular Dystrophy

Charlie Emerson, PhD	Professor, Department of Neurology, UMass Chan-Worcester	
Wen-Chieh Lin, PhD	Assistant Professor, Department of Family Medicine and Community Health, UMass Chan-Worcester	Identify Community-Living Elders at High Risk of Falling for Targeted and Tailored Interventions
Jeffrey J. Rade, MD	Professor, Department of Medicine, UMass Chan-Worcester	Endothelial-Specific Thromboxane Metabolites as Novel Biomarkers for Cardiovascular Risk
Wen Xue, PhD	Assistant Professor, RNA Therapeutics Institute, UMass Chan-Worcester	CRISPR-Based Precision Medicine for Tyrosinemia
2014 PPP		
Investigators	Title/Affiliation	Project Title
Lucio H. Castilla, PhD	Associate Professor, Program in Gene Function and Expression, UMass Chan-Worcester	Study the Efficacy of Novel Targeted Therapy Drug for inv16 Acute Myeloid Leukemia in vivo
Nina Deng, Ed.D., MA	Assistant Professor, Department of Quantitative Health Sciences, UMass Chan-Worcester	Statistical Significance and Power Analyses for Relative Validity Comparisons among Patient- Reported Outcome Measurement Tools
John E. Ware, Jr., PhD	Professor and Division Chief, Quantitative Health Sciences, UMass Chan-Worcester	
Jeroan Allison, MD, MS	Professor and Vice Chair, Department of Quantitative Health Sciences, UMass Chan-Worcester	
Arlene Ash, PhD	Professor and Division Chief, Department of Quantitative Health Sciences, UMass Chan-Worcester	
Hua Fang, PhD	Assistant Professor, Department of Quantitative Health Sciences, UMass Chan-Worcester	
Anastasia Khvorova, PhD	Professor, Department of Molecular Medicine, RNA Therapeutics Institute, UMass Chan-Worcester	Development of Novel Class of Therapeutic Oligonucleotides based on Small Molecule Screening
John E. Landers, PhD	Director, Center for ALS Genetics Day Neuromuscular Research Laboratory; Associate Professor, Department of Neurology, UMass Chan-Worcester	Evaluation of Candidate ALS Genes by AAV9 Transgene Delivery into Mice
Beth A. McCormick, PhD	Professor, Microbiology and Physiological Systems, UMass Chan-Worcester	Semi-Synthetic Nanobug: Mimicking Bacterial Pathogens to Overcome Multidrug Resistance in Tumors
Gang Han, PhD	Assistant Professor of Biochemistry and Molecular Pharmacology, UMass Chan-Worcester	

Phillip D. Zamore, PhD	Gretchen Stone Cook Professor of Biomedical Sciences, UMass Chan-Worcester	Cell Type-specific Gene Silencing by Tethered microRNAs
Guangping Gao, PhD	Professor, Microbiology & Physiological Systems, UMass Chan-Worcester	
2013 PPP		
Investigators	Title/Affiliation	Project Title
Jeffrey A. Bailey, MD, PhD	Assistant Professor, Division of Transfusion Medicine, Department of Medicine, UMass Chan-Worcester	Endemic Burkitt Lymphoma Transcriptome and Genome Profiles Associated with Clinical Presentation, Treatment Response, Relapse, and Survival
Ann M. Moormann, PhD, MPH	Associate Professor, Division of Pediatric Immunology & Infectious Diseases, Department of Pediatrics, UMass Chan-Worcester	
Michael R. Green, MD, PhD	Professor, Program in Molecular Medicine; Director, Program in Gene Function and Expression, UMass Chan-Worcester	Reactivation of the Inactive X-Linked <i>MECP2 Gene</i> as a Therapeutic Strategy for Rett Syndrome
Sanchita Bhatnagar, PhD	Instructor, Program in Gene Function and Expression, UMass Chan-Worcester	
Andrei A. Korostelev, PhD	Assistant Professor, RNA Therapeutics Institute and Department of Biology & Molecular Pharmacology, UMass Chan-Worcester	Novel Therapeutic Routes against Premature- Termination Diseases
Wenjun Li, PhD	Associate Professor, Division of Preventive and Behavioral Medicine, Department of Medicine, UMass Chan-Worcester	Health Care Reform and Accessibility, Quality and Outcomes of AMI-Related Care
Robert Goldberg, PhD	Professor, Quantitative Health Sciences, UMass Chan-Worcester	
Joel M. Gore, MD	Professor, Division of Cardiovascular Medicine, Department of Medicine, UMass Chan-Worcester	
Joel D. Richter, PhD	Professor, Program in Molecular Medicine, UMass Chan-Worcester	Amelioration of the Fragile X Syndrome by Targeting the Translational Apparatus
Jean A. Frazier, MD	Robert M. and Shirley S. Siff Endowed Chair in Autism; Professor, Departments of Psychiatry and Pediatrics, UMass Chan-Worcester	
Jean A. King, PhD	Professor, Department of Psychiatry, UMass Chan-Worcester	
Futai Kensuke, PhD	Assistant Professor, Department of Psychiatry, Neuropsychiatric Research Institute, UMass Chan-Worcester	

David M. McManus, MD, ScM	Assistant Professor, Departments of Medicine and Quantitative Health Sciences, UMass Chan-Worcester	Cognitive and Psychosocial Characteristics in Patients Undergoing Treatment for Atrial Fibrillation: Relation to 6-month Clinical Outcomes
Jane S. Saczynski, PhD	Assistant Professor, Departments of Medicine and Quantitative Health Sciences, UMass Chan-Worcester	
Catarina Kiefe, PhD, MD	Professor and Chair, Department of Quantitative Health Sciences; Inaugural Melvin S. and Sandra L. Cutler Chair in Biomedical Research, UMass Chan-Worcester	
Robert Goldberg, PhD	Professor, Departments of Medicine Quantitative Health Sciences, UMass Chan-Worcester	
John F. Keaney, Jr., MD	Chief, Division of Cardiovascular Medicine; Professor, Department of Medicine, UMass Chan-Worcester	
Kevin Floyd, MD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	
Molly E. Waring, PhD	Assistant Professor, Quantitative Health Sciences, UMass Chan-Worcester	Impulsivity and Weight Gain During Pregnancy: The Roles of Excess Energy Intake, Food Reward Sensitivity, and the Food Environment
Tiffany Moore Simas, MD	Associate Professor, Departments of Obstetrics & Gynecology and Pediatrics, UMass Chan-Worcester	
Sherry L. Pagoto, PhD	Associate Professor, Division of Preventive and Behavioral Medicine, Department of Medicine, UMass Chan-Worcester	
Barbara Olendzki, RD, MPH, LDN	Clinical & Research Nutritionist and Nutrition Program Director, Center for Applied Nutrition; Assistant Professor, Division of Preventive and Behavioral Medicine, Department of Medicine, UMass Chan-Worcester	
2012 PPP		
Investigators	Title/Affiliation	Project Title
Hua (Julia) Fang, PhD	Assistant Professor, Division of Biostatistics and Health Services, Department of Quantitative Health Sciences (QHS), UMass Chan-Worcester	A New Tool for Studying Heterogeneity of Treatment Effects in Longitudinal Translational Research
Joseph DiFranza, MD	Professor, Department of Family Medicine & Community Health, UMass Chan-Worcester	
Ann Moormann, PhD	Associate Professor, Pediatric Immunology & Infectious Diseases, Department of Pediatrics, UMass Chan-Worcester	

Yunsheng Ma, MD, PhD	Associate Professor, Division of Preventive & Behavioral Medicine, Department of Medicine, UMass Chan-Worcester	A New Tool for Studying Heterogeneity of Treatment Effects in Longitudinal Translational Research
Sun S. Kim, PhD, RN	Assistant Professor, Department of Psychiatry, UMass Chan-Worcester	
Thomas Houston, MD, MPH	Professor, Quantitative Health Sciences, UMass Chan-Worcester	
Bruce A. Barton, PhD	Professor, Quantitative Health Sciences, UMass Chan-Worcester	
Jeroan Allison, MD, MSc	Professor & Vice Chair, Department of Quantitative Health Sciences, UMass Chan-Worcester	
Arlene S. Ash, PhD	Professor, Quantitative Health Sciences, UMass Chan-Worcester	
Brian C. Lewis, PhD	Associate Professor, Program in Gene Function and Expression, UMass Chan-Worcester	Combined Inhibition of MEK and IGF1R as an Effective Therapeutic Strategy for Pancreatic Ductal Adenocarcinoma
Venu Bathini, MD	Assistant Professor, Department of Medicine, Division of Hematology and Oncology, UMass Chan-Worcester	
Zuoshang Xu, PhD	Professor, Department of Biochemistry and Molecular Pharmacology, UMass Chan-Worcester	Deliver RNAi for Treatment of Amyotrophic Lateral Sclerosis (ALS) Using AAV
Guangping Gao, PhD	Professor, Microbiology and Physiological Systems, UMass Chan-Worcester	
Robert Brown, Jr., MD, PhD	Professor and Chair, Department of Neurology, UMass Chan-Worcester	
2010 PPP		
Investigators	Title/Affiliation	Project Title
Kristina Deligiannidis, MD	Assistant Professor of Psychiatry and Obstetrics & Gynecology, UMass Chan-Worcester	A Neuroendocrine and Neurochemical Biosignature in Late Pregnancy and its Association with the Development of Post-Partum Depression in Women
Anthony J. Rothschild, MD	Irving S. & Betty Brudnick Endowed Chair & Professor of Psychiatry, UMass Chan-Worcester	
Peter J. Schmidt, MD	Chief, Section on Behavioral Endocrinology, NIH/NIMH	
Neil Aronin, MD	Chief, Division of Endocrinology & Metabolism; Professor of Medicine; Cell Biology; Physiology, UMass Chan-Worcester	

Scott Shaffer, PhD	Research Professor of Biochemistry & Molecular Pharmacology, UMass Chan-Worcester	A Neuroendocrine and Neurochemical Biosignature in Late Pregnancy and its Association with the Development of Post-Partum Depression in Women
Julia V. Johnson, MD	Professor & Chair of the Department of Obstetrics & Gynecology, UMass Chan-Worcester	
Bruce Barton, PhD	Research Professor of Quantitative Health Sciences, UMass Chan-Worcester	
John E. Harris, MD, PhD	Assistant Professor of Medicine, Division of Dermatology, UMass Chan-Worcester	Testing the Safety of Simvastatin as a New Treatment for Vitiligo
Bruce Barton, PhD	Research Professor of Quantitative Health Sciences, UMass Chan-Worcester	
John E. Landers, PhD	Associate Professor of Neurology; Director, Center for ALS Genetics, Day Neuromuscular Research Laboratory, UMass Chan-Worcester	Identification of Recessive Genes Causative for Parkinson's Disease Using Exome Sequencing
Stefano Goldwurm, PhD	Director of the "Parkinson Institute Biobank" at the Parkinson Institute in Milan, Italy	
Phillip D. Zamore, PhD	Gretchen Stone Cook Professor of Biomedical Sciences, Professor of Biochemistry & Molecular Pharmacology, UMass Chan-Worcester	Understanding the Consequences of Recombinant Adeno-Associated Virus-Mediated, Long-Term Inhibition of Mir-122 and Mir-33 in Mice
Guangping Gao, PhD	Professor, Microbiology and Physiological Systems, UMass Chan-Worcester	
Milagros C. Rosal, PhD	Associate Professor of Medicine, Division of Preventive & Behavioral Medicine, UMass Chan-Worcester	Percent Dietary Saturated Fat Composition in Pregnancy and Postpartum Weight Loss
Tiffany A. Moore Simas, MD, MPH, MEd	Assistant Professor, Obstetrics & Gynecology and Pediatrics, UMass Chan-Worcester	
Silvia Corvera, MD	Professor of Molecular Medicine, UMass Chan-Worcester	
Sarwat Hussain, MD	Professor and Vice Chair of Radiology, UMass Chan-Worcester	
Barbara Olendzki, RD, MPH, LDN	Division of Preventive & Behavioral Medicine, UMass Chan-Worcester	

Kristin Schneider, PhD	Assistant Professor of Medicine, UMass Chan-Worcester	A Community-Based Social Networking Intervention to Increase Walking in Dog Owners
Stephenie Lemon, PhD	Associate Professor of Medicine, UMass Chan-Worcester; Director of the Worcester County Prevention Research Center	
Jessica Oleski, MA	Project Director, UMass Chan-Worcester	
Deirdra Murphy, DPT	Assistant Professor of Physical Therapy, UMass Lowell	
Cynthia Ferrara, PhD	Associate Professor of Physical Therapy, UMass Lowell	
2009 PPP		
Investigators	Title/Affiliation	Project Title
David Guertin, PhD	Assistant Professor, Molecular Medicine, UMass Chan-Worcester	The Role of mTOR in Tumor Progression, and Fostering the Development of Novel mTOR Inhibitors for Use in Oncology
Jennifer Tseng, MD, MPH	Associate Professor, Department of Surgery, UMass Chan-Worcester	Proteomic and MicroRNA Biomarkers for Malignancy in Cystic Pancreatic Lesions
Victor Ambros, PhD	Professor, Molecular Medicine, UMass Chan-Worcester	
Brian Lewis, PhD	Associate Professor, Gene Function & Expression, UMass Chan-Worcester	
Leslie Berg, PhD	Professor, Pathology, UMass Chan-Worcester	Inhibition of the Tec Kinase ITK as a Novel Treatment for Human Autoimmune Diseases
Joonsoo Kang, PhD	Associate Professor, Pathology, UMass Chan-Worcester	
Jan Cerny, MD, PhD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	Targeting of Stem Cells in Chronic Myeloid Leukemia Patients
Shaoguang Li, MD, PhD	Associate Professor, Department of Medicine, Hematology/Oncology Division, UMass Chan-Worcester	
Alan G. Rosmarin, MD	Associate Professor, Department of Medicine, Hematology/Oncology Division, UMass Chan-Worcester	
Elliot Androphy, MD	Professor, Department of Medicine, UMass Chan-Worcester	Development of an E6 Inhibitor Medication
Stephen Miller, PhD	Assistant Professor, Department of Medicine, UMass Chan-Worcester	

2008 PPP		
Investigators	Title/Affiliation	Project Title
<p>Ellen Gravallese, MD</p> <p>Gary Ostroff, PhD</p> <p>Nicole C. Walsh, PhD</p> <p>Alfonso Mora, DVM</p>	<p>Professor, Medicine & Cell Biology, UMass Chan-Worcester</p> <p>Instructor, Molecular Medicine, UMass Chan-Worcester</p> <p>Instructor, Rheumatology/Medicine, UMass Chan-Worcester</p> <p>Instructor, Molecular Medicine, UMass Chan-Worcester</p>	<p>Orally Delivered siRNA Targeting MAP4K4 for the Treatment of Arthritis</p>
<p>Michael Green, PhD, MD</p> <p>Narendra Wajapeyee, PhD</p>	<p>Professor, Molecular Medicine Director, Gene Function & Expression, UMass Chan-Worcester</p> <p>Post Doc Associate, Gene Function & Expression, UMass Chan-Worcester</p>	<p>Role of IGFBP7 and IGFBP7 Pathway Components in the Development, Diagnosis and Treatment of Cancers Involving Oncogenic BRAF</p>
<p>Timothy Kowalik, PhD</p> <p>Laura Gibson, MD</p> <p>Nicholas Renzette, PhD</p> <p>Bornali Bhattacharjee, PhD</p> <p>Jeffrey Jensen, PhD</p>	<p>Associate Professor, Molecular Genetics & Microbiology/Vice Chair, Immunology & Virology Program, UMass Chan-Worcester</p> <p>Assistant Professor, Pediatrics & Medicine, Divisions of Infectious Diseases & Immunology, UMass Chan-Worcester</p> <p>Post Doc Fellow, Molecular Genetics & Microbiology, UMass Chan-Worcester</p> <p>Post Doc Fellow, Molecular Genetics & Microbiology, UMass Chan-Worcester</p> <p>Assistant Professor, Molecular Medicine, UMass Chan-Worcester</p>	<p>CMV-Specific Cellular Immunity and Genomic Variation</p>
<p>Michel Albert, PhD</p> <p>J. Mark Madison, MD</p>	<p>Professor, Department of Radiology; Director, MRI Research Medicine & Physiology, UMass Chan-Worcester</p> <p>Professor, Molecular Medicine & Physiology; Chief, Pulmonary, Allergy & Critical Care Medicine, UMass Chan-Worcester</p>	<p>New Technique for Understanding/Diagnosis of COPD: Hyperpolarized 3He MR Imaging</p>
<p>Tiffany A. Moore-Simas, MD, MPH</p> <p>Janet Hardy, PhD, MS, MPH</p> <p>Sybil L. Crawford, PhD</p> <p>Sharon Maynard, MD</p>	<p>Assistant Professor, Obstetrics & Gynecology and Pediatrics, UMass Chan-Worcester</p> <p>Instructor, Department of Medicine, Preventive & Behavioral Medicine, UMass Chan-Worcester</p> <p>Associate Professor, Department of Medicine, Preventive & Behavioral Medicine</p> <p>George Washington University</p>	<p>Angiogenic Biomarkers for the Prediction of Preeclampsia</p>

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Investigators	Title/Affiliation	Project Title
Silvia Corvera, MD Richard Perugini, MD Michael Thompson, MD	Professor, Department of Molecular Medicine, UMass Chan-Worcester Assistant Professor, Department of Surgery, UMass Chan-Worcester Assistant Professor, Department of Medicine, UMass Chan-Worcester	Thiazolidione family of insulin sensitizers in humans
Sherry Pagoto, PhD Jamie Bodenlos, PhD Anthony Rothschild, PhD Roger Davis, PhD Yunsheng Ma, PhD	Assistant Professor, Preventive & Behavioral Medicine, UMass Chan-Worcester Post Doc Fellow, Preventive & Behavioral Medicine, UMass Chan-Worcester Professor, Department of Psychiatry, UMass Chan-Worcester Professor, Department of Molecular Medicine, UMass Chan-Worcester Assistant Professor, Preventive & Behavioral Medicine, UMass Chan-Worcester	Effective acute vagus nerve stimulation of eating behavior and appetite regulation
David Paydarfar, MD Elisabeth Block Salisbury, PhD Premananda Indic, PhD Francis J. Bednarek, MD	Professor, Departments of Neurology & Physiology, UMass Chan-Worcester Assistant Professor, Departments of Neurology and Pediatrics, UMass Chan-Worcester Instructor, Department of Neurology, UMass Chan-Worcester Chief, Neonatology; Professor, Departments of Pediatrics and Obstetrics & Gynecology, UMass Chan-Worcester	Pathological disturbances in respiratory rhythm
Richard Perugini, MD Michael P. Czech, PhD	Assistant Professor, Department of Surgery, UMass Chan-Worcester Professor & Chair, Program in Molecular Medicine, UMass Chan-Worcester	Molecular mechanisms of insulin in obese patients
Jie Song, PhD David Ayers, MD	Assistant Professor, Cell Biology, Orthopedics, & Physical Rehabilitation, UMass Chan-Worcester Professor & Chair, Department of Orthopedics & Physical Rehabilitation, UMass Chan-Worcester	New therapeutics strategy for the treatment of osteoporotic bony lesions