

Scholar/Affiliation	Title of Project/Mentors	Years in Program
Anna Colleen Crouch, PhD, UT MDACC, Interventional Radiology	Thermochemical Ablation for Treatment of Hepatocellular Carcinoma in Murine Models: Preclinical Feasibility Study, Erik Cressman, MD, PhD	2020-2021
Mariane Martinez, PhD, UT MS, Integrative Biology and Pharmacology	Muscle Regeneration and Fibrosis in Humans After Traumatic Injury, Rebecca Berdeaux, PhD	2020-2021
Josephine Darpolor, UT MDACC, Cancer Biology	The role of fibroblast functional heterogeneity in pancreatic cancer immunity, Raghu Kalluri M.D, Ph.D	2020-2020
Pedram Honarpisheh, UT MS, Neuroscience	Dendritic Cell Aryl Hydrocarbon Receptor mediates the Detrimental Effects of Age-Related Dysbiosis on Stroke Outcomes, Louise D. McCullough, MD, PhD	2020-2020
Harris Weisz, PhD, UT MS, Center for Translational Injury Research	Traumatic Brain Injury/Examining the Influence of the Microbiome on the Neuroinflammatory Response to Traumatic Brain Injury, Charles Wade, PhD	2020-2020
Samantha Fix, PhD, UT MDACC, Melanoma Medical Oncology	Genetically engineering T cells to overcome the immunosuppressive melanoma microenvironment, Patrick Hwu, MD	2020-2020
Nicholas Karagas, UT MS, Integrative Biology and Pharmacology	The Role of ER Calcium Release in Neurodegeneration, Kartik Venkatachalam, MD	2016-2017
Marissa Hornabaker, UT MDACC, Genetics	Understanding the oncogenic role of hnRNP K in AML, Sean Michael Post, PhD	2016-2017
Grant Fischer, UT MDACC, Melanoma Medical Oncology	The Role of Oxidative Phosphorylation in the Pathogenesis of Melanoma Brain Metastases, Michael Davies, MD, PhD	2016-2017
Ryan Cassidy, UT IMM, Center for Metabolic and Degenerative Diseases	Antipsychotic-induced weight gain arises from alteration of regulatory feeding circuitry in the lateral hypothalamic area, Qingchun Tong, PhD	2016-2017
Maureen Aliru, UT MDACC, Radiation Oncology	Thermally -Induced Release of Nuclear - Targeted Gold Nanoparticles as Modulators of Radiotherapy, Sunil Krishnan, MD	2016-2017
Randi Fitzgibbon, UT MS, Integrative Biology and Pharmacology	Skeletal muscle SIK1 as a target to improve insulin sensitivity in obesity, Rebecca Berdeaux, Ph.D.	2015-2017
Anthony Patrizz, UT MS, Neuroscience	Stroke Induced Respiratory Dysfunction: Effects of Age and Sex, Louise D. McCullough, MD, PhD	2015-2017

Lalit Patel, UT MDACC, Biochemistry and Molecular Biology	Genetic Context and Mechanistic Rationale for TRIM24-Inhibition in Steroid-Driven Malignancies, Michelle Barton, PhD	2015-2017
Shelley Herbrich, UT MDACC, Clinical and Translational Sciences	TRK inhibition as a novel therapeutic in AML, Patrick A. Zweidler-McKay, MD, PhD	2015-2016
Kerri Callegari, UT MDACC, Neuroscience	LSD1 and REST in Medulloblastoma, Vidya Gopalakrishnan, PhD	2015-2017
Neima Briggs, UT MDACC, Immunology	A human whipworm vaccine targeting intracellular parasite invasion, Jagannadha K. Sastry, PhD	2015-2017
Sherille Bradley, UT MDACC, Melanoma Medical Oncology	Development of novel immunotherapies for ovarian cancer, Greg Lizee, PhD	2015-2017
Casey Ager, UT MDACC, Immunology	Sensitizing Pancreatic Adenocarcinoma to Checkpoint Blockade Immunotherapy Through Repolarization of the Suppressive Tumor Myeloid Compartment via STING, Mike Curran, PhD	2015-2017
Andrew Davis, UT MDACC, Molecular & Cellular Oncology	Elucidating the Roles of TAp63 in DNA Damage Response and Cutaneous Squamous Cell Carcinoma, Elsa Flores, PhD	2014-2015
Megan Jacobsen, UT MDACC, Imaging Physics	Characterization of Low-Density Calcific and Hemorrhagic Lesions using T2-Star-Weighted Angiography, Dianna Cody, PhD	2014-2015
Charissa Kim, UT MDACC, Cancer Genomics	Chemoresistance Evolution and Clonal Diversity in Triple-Negative Breast Cancer, Nicholas Navin, PhD	2014-2015
Courtney Olsen, UTHealth Medical School Integrative Biology & Pharmacology	The Role of SHANK Proteins in Somatostatin Receptor Signaling, Agnes Schonbrunn, PhD	2014-2016
Sahily Reyes, UTHealth Medical School Neurobiology & Anatomy	Endosomal Trafficking of Amyloid Precursor Protein, Andrew Bean, PhD	2014-2015
Vita Chitsazzadeh, UT MDACC, Dermatology	Identification and Functional Analysis of Key Genetic Drivers of Cutaneous Squamous Cell Carcinoma, Kenneth Tsai, MD, PhD	2013-2015
Cihan Kadipasaoglu, UTHealth Medical School Neurobiology & Anatomy	Network Dynamics of the Ventral Temporal-Occipital Cortex during Semantic Processing, Nitin Tandon, MD, PhD	2013-2015

<u>Samuel Fahrenholtz, UT MDACC, Imaging Physics</u>	A Computational Paradigm to Infer Constitutive Values and Perform Predictive Simulation for Magnetic Resonance—Guided Laser-Induced Thermal Therapy, R. Jason Stafford, PhD	2012-2015
<u>Amanda Hanks, UT MDACC, Experimental Radiation Oncology</u>	Elucidating the Role of Estrogen Receptor- α —Binding Proteins During Antiestrogen Resistance in Breast Cancer, Khandan Keyomarsi, PhD	2013-2014
<u>Christopher MacLellan, UT MDACC, Imaging Physics</u>	Image-Based Modeling of Nanoparticle Mediated Laser Ablations for the Treatment of Head and Neck Cancer, R. Jason Stafford, PhD	2012-2015
<u>Andrew Peters, UTHealth Medical School Internal Medicine,</u>	Biomechanical Induction of Ascending Aortic Aneurysms to Investigate Signal Transduction Through the AT1 Receptor: A Possible Mechanism for Preventative Therapy by Angiotensin-Receptor Blockers in Human Patients with Aortic Aneurysms and Dissections, Dianna Milewicz, MD, PhD	2012-2015
<u>Meredith Rees Rodriguez UTHealth Medical School Internal Medicine</u>	Metabolic Basis of Sunitinib-Induced Cardiac Toxicity, Heinrich Taegtmeyer, MD, PhD	2012-2015
<u>Amanda Herrmann, UT MDACC Stem Cell Transplantation & Cellular Therapy</u>	Developing a Bi-specific T Cell—Engaging Antibody that Targets the Leukemia-Associated Antigen PR1 and Testing its Therapeutic Potential in Hematological and Non-hematological Tumors, Jeffrey Molldrem, MD	2013-2014
<u>Margie Sutton, UT MDACC, Experimental Therapeutics</u>	Structural and Functional Role of DIRAS Family Members in the Regulation of Cell Growth, Autophagy, Motility, and Tumor Dormancy in Ovarian Cancer, Robert Bast, Jr, MD	2013-2016
<u>Ryan Fortune, UTHealth, Integrative Biology & Pharmacology</u>	Blood Testis Barrier Integrity in Spinal Cord Injury and the Protective Effect of Licofelone in a Sprague-Dawley Rat Model, Raymond Grill, PhD	2012-2014
<u>Nicholas Parchim, UTHealth, Biochemistry & Molecular Biology</u>	C-Reactive Protein Contributes to Pathophysiology of Preeclampsia via Neurokinin 3 Signaling, Yang Xia, MD, PhD	2012-2014
<u>David Savage, UT MDACC, Surgery</u>	Hyperthermic Cell Death with Targeted C60 Fullerene-Gemcitabine Complexes, Rita Serda, PhD, Steven Curley, MD	2012-2014

Adam Wolfe, UT MDACC, Radiation Oncology	Statins Inhibit the Tumor-Associated Macrophage Inflammatory Response, Making Tumor-Initiating Cells More Radiosensitive, Wendy Woodward, MD, PhD	2012-2013
Henry Wu, UTHealth Medical School, Internal Medicine	Metabolic Dysregulations and Modulations of a Genetic Model of Heart Failure, Heinrich Taegtmeier, MD, PhD	2012-2013
David Calame, UT Health, Institute of Molecular Medicine	Stem Cell-Derived Type II Alveolar Cells as a Gene Therapy for Surfactant Protein Deficiency, Rick Wetsel, PhD	2010-2013
Natalie Jabbour, UT MDACC, Cancer Biology	Autophagy as a Therapeutic Target Against Triple Negative Breast Cancer, Khandan Keyomarsi, PhD	2010-2013
Jennifer Dulin, UTHealth, Medical School Neurobiology & Anatomy	Investigation of P-glycoprotein Modulation by Inflammation in Spinal Cord Injury, Raymond Grill, PhD	2010-2012
Callie Kwartler, UTHealth Medical School, Internal Medicine	Molecular Mechanisms Driving Aneurysm Formation in Patients with 16p13 Duplications, Dianna Milewicz, MD, PhD	2010-2012
Jonathan Martinez, UTHealth, Institute for Molecular Medicine	Universal Cell-Directed NanoTheranostics, Mauro Ferrari, PhD	2010-2012
Rachel Reith, UTHealth Medical School Pediatrics,	Loss of Tuberlin in the Purkinje Cell: A Possible Link Between Tuberous Sclerosis Complex and Autism Spectrum Disorders, Michael Gambello, MD, PhD	2010-2012
Coty Maypole, UTHealth, Public Health Environmental and Occupational Health Sciences	Polycyclic Aromatic Hydrocarbons and Intrauterine Growth Restriction in Texas, Elaine Symanski, PhD	2010-2011
David Reynoso, UT MDACC, Sarcoma Medical Oncology	The Role, Clinical-Relevance, and Therapeutic Potential of the Pro-Apoptotic Protein Bim in Mediating the Cytotoxic Effect of Imatinib Mesylate in GIST, John Trent, MD, PhD	2010-2011
Shiraj Sen, UTHealth Medical School, Internal Medicine	Metabolic Signals: Novel Regulators of Cardiac Growth Pathways, Heinrich Taegtmeier, MD, PhD	2010-2011
Hillary Gibbons Caruso, UT MDACC, Immunology	Transiently Modified T Cells Redirected to Tumor Antigen for Treatment of Diffuse Intrinsic Pontine Glioma, Laurence J.N. Cooper, MD, PhD	2009-2012
Jillian Wise, UT MDACC, Lymphoma/Myeloma Medical Oncology	Deciphering the Underlying Mechanism of Anti-CD74 Antibody (hLL1), Felipe Samaniego, MD, MPH	2009-2012

Richard Wu, UT MDACC, Melanoma Medical Oncology	Functional Characterization of Novel Immunoregulatory CD8+CD27+CD28+CD57+ T Lymphocytes in Tumor-Infiltrating Lymphocytes in Human Cancers, Laszlo Radvanyi, PhD	2009-2012
Jessica Bowser, UT MDACC, Pathology	Targeting the Purinergic Pathway in Endometrial Cancer, Russell Broaddus MD, PhD	2009-2011
Rene Colorado, UTHealth Medical School Neurobiology & Anatomy	Combined fMRI and DTI to Demonstrate Structural Changes Associated with Cortical Reorganization in Multiple Sclerosis, Ponnada Narayana, PhD	2009-2011
Audrey Nath, UTHealth Medical School Neurobiology & Anatomy	Structural Equation Modeling and Multi-Voxel Pattern Analysis of fMRI Data as a Novel Measure of Multisensory Deficits in Dyslexic Readers, Michael Beauchamp, PhD	2009-2011
Katrina Salazar, UT MDACC, Cancer Biology	Targeting the TGF-beta-TAZ Pathway in Glioblastoma, Kenneth Aldape, MD	2009-2011
Sumaiyah Khaleel Rehman, UT MDACC, Molecular and Cellular Biology	14-3-3 ζ -Induced microRNA Deregulation in Early Breast Lesions Promotes Cancer Progression, Dihua Yu, MD, PhD	2009-2010
Amy Reid, UTHealth, Internal Medicine	Dysfunctional Differentiation of the Vascular Smooth Muscle Cells in Patients with Genetic Cerebrovascular Disease, Dianna Milewicz, MD, PhD	2009-2010
Lisa Shiue, UT MDACC, Dermatology	Immunological Mechanisms of Extracorporeal Photopheresis in Cutaneous T-Cell Lymphoma versus Graft vs. Host Disease: Induction of Antigen-specific Cytotoxic T-cells or Regulatory T-cells?, Madeleine Duvic, MD	2009-2010
Hatice Duzkale, UT MDACC, Hematopathology	Identification of the Role of LDOC1 in the Pathogenesis of Chronic Lymphocytic Leukemia, Lynne V. Abruzzo, MD, PhD	2008-2011
Lenka Hurton, UT MDACC, Immunology	Improving Persistence of Tumor-Specific T Cells by Augmenting Signaling in Concert with Immunoreceptor for Improved Therapeutic Efficacy, Laurence J.N. Cooper, MD, PhD	2008-2011
Cameron Jeter, UTHealth Medical School Neurobiology & Anatomy	Reflexive and Voluntary Eye Movements in Tourette Syndrome, Anne B. Sereno, PhD	2008-2010
Keri Schadler, UT MDACC, Cancer Biology	The Role of Delta-like Ligand 4 in Vasculogenesis in Ewing's Sarcoma, Eugenie S. Kleinerman, MD	2008-2010

Daniel Schneider, UTHealth Medical School, Biochemistry and Molecular Biology	Role of Osteopontin and Adenosine Signaling in Chronic Pulmonary Disease, Michael R. Blackburn, PhD	2008-2010
Mary Ann Vincent, UTHealth, Nursing	Biomarker Circadian Rhythm Profiles in Critically Ill Mechanically Ventilated Patients, Sandra K. Hanneman, PhD, RN, FAAN	2008-2010
Kedryn Baskin, UTHealth Medical School Internal Medicine	AMP-Activated Protein Kinase Regulates Ubiquitin Ligases in Cardiomyocytes, Heinrich Taegtmeier, MD, PhD	2008-2009
Audrey Ester, UTHealth Medical School, Pediatrics	Defining the Role of Apoptotic and Hox Genes in the Development of Clubfoot, Jacqueline Hecht, PhD	2008-2009
Jennifer Hsing Choe, UT MDACC, Cancer Biology	The Role of Endoplasmic Reticulum Stress in Pancreatic Cancer, Craig Logsdon, PhD	2007-2009
Ashley Hood, UTHealth Medical School, Neurobiology & Anatomy	The Effect of Deep Brain Stimulation on Attention in Parkinson Disease, Anne B. Sereno, PhD	2007-2009
Pavel Levin, UT MDACC, Cancer Biology	Role of EphA Receptors in Pancreatic Cancer Progression and Metastasis, Craig Logsdon, PhD	2007-2009
Debra Smith, UT MDACC, Systems Biology	Characterization of Akt Feedback Signaling in Human Cancer Cell Lines, Gordon Mills, MD, PhD	2007-2009
Emily Jen, UT MDACC, Experimental Therapeutics	IL-2 Treatment Leads to Upregulation of IL-24 and Tumor Growth Suppression in Melanoma Patients, Elizabeth Grimm, PhD	2007-2008
Qian Liu, UT MDACC, Epidemiology	SEL1L as a Biomarker for Early Detection of Pancreatic Adenocarcinoma, Marsha Frazier, PhD	2007-2008
John McAuliffe, UT MDACC, Sarcoma Medical Oncology	Vascular Cytokines and Mechanisms of Imantinib in GIST, John Trent, MD, PhD	2007-2008
Hui Song, UT MDACC, Molecular & Cellular Oncology	VISA to Cancer Gene Therapy, Mien Chie Hung, PhD	2007-2008